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(57) Abstract			
This invention relates to novel human polynucleotides and variants thereof, their encoded polypeptides and variants thereof, to genes corresponding to these polynucleotides and to proteins expressed by the genes. The invention also relates to diagnostic and therapeutic agents employing such novel human polynucleotides, their corresponding genes or gene products, e.g., these genes and proteins, including probes, antisense constructs, and antibodies.			

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HUMAN GENES AND GENE EXPRESSION PRODUCTS V

Field of the Invention

5 The present invention relates to polynucleotides of human origin and the encoded gene products.

Background of the Invention

Identification of novel polynucleotides, particularly those that encode an expressed gene product, is important in the advancement of drug discovery, diagnostic technologies, and the understanding of the progression and nature of complex diseases such as cancer. Identification of
10 genes expressed in different cell types isolated from sources that differ in disease state or stage, developmental stage, exposure to various environmental factors, the tissue of origin, the species from which the tissue was isolated, and the like is key to identifying the genetic factors that are responsible for the phenotypes associated with these various differences.

This invention provides novel human polynucleotides, the polypeptides encoded by these
15 polynucleotides, and the genes and proteins corresponding to these novel polynucleotides.

Summary of the Invention

This invention relates to novel human polynucleotides and variants thereof, their encoded polypeptides and variants thereof, to genes corresponding to these polynucleotides and to proteins expressed by the genes. The invention also relates to diagnostics and therapeutics comprising such
20 novel human polynucleotides, their corresponding genes or gene products, including probes, antisense nucleotides, and antibodies. The polynucleotides of the invention correspond to a polynucleotide comprising the sequence information of at least one of SEQ ID NOS:1-2707.

Various aspects and embodiments of the invention will be readily apparent to the ordinarily skilled artisan upon reading the description provided herein.

25 Detailed Description of the Invention

The invention relates to polynucleotides comprising the disclosed nucleotide sequences, to full length cDNA, mRNA genomic sequences, and genes corresponding to these sequences and degenerate variants thereof, and to polypeptides encoded by the polynucleotides of the invention and polypeptide variants. The following detailed description describes the polynucleotide compositions
30 encompassed by the invention, methods for obtaining cDNA or genomic DNA encoding a full-length gene product, expression of these polynucleotides and genes, identification of structural motifs of the polynucleotides and genes, identification of the function of a gene product encoded by a gene corresponding to a polynucleotide of the invention, use of the provided polynucleotides as probes and in mapping and in tissue profiling, use of the corresponding polypeptides and other gene

products to raise antibodies, and use of the polynucleotides and their encoded gene products for therapeutic and diagnostic purposes.

Polynucleotide Compositions

The scope of the invention with respect to polynucleotide compositions includes, but is not necessarily limited to, polynucleotides having a sequence set forth in any one of SEQ ID NOS:1-2707; polynucleotides obtained from the biological materials described herein or other biological sources (particularly human sources) by hybridization under stringent conditions (particularly conditions of high stringency); genes corresponding to the provided polynucleotides; variants of the provided polynucleotides and their corresponding genes, particularly those variants that retain a biological activity of the encoded gene product (*e.g.*, a biological activity ascribed to a gene product corresponding to the provided polynucleotides as a result of the assignment of the gene product to a protein family(ies) and/or identification of a functional domain present in the gene product). Other nucleic acid compositions contemplated by and within the scope of the present invention will be readily apparent to one of ordinary skill in the art when provided with the disclosure here.

“Polynucleotide” and “nucleic acid” as used herein with reference to nucleic acids of the composition is not intended to be limiting as to the length or structure of the nucleic acid unless specifically indicated.

The invention features polynucleotides that are expressed in human tissue, specifically human colon, breast, and/or lung tissue. Novel nucleic acid compositions of the invention of particular interest comprise a sequence set forth in any one of SEQ ID NOS:1-2707 or an identifying sequence thereof. An “identifying sequence” is a contiguous sequence of residues at least about 10 nt to about 20 nt in length, usually at least about 50 nt to about 100 nt in length, that uniquely identifies a polynucleotide sequence, *e.g.*, exhibits less than 90%, usually less than about 80% to about 85% sequence identity to any contiguous nucleotide sequence of more than about 20 nt. Thus, the subject novel nucleic acid compositions include full length cDNAs or mRNAs that encompass an identifying sequence of contiguous nucleotides from any one of SEQ ID NOS: 1-2707.

The polynucleotides of the invention also include polynucleotides having sequence similarity or sequence identity. Nucleic acids having sequence similarity are detected by hybridization under low stringency conditions, for example, at 50°C and 10XSSC (0.9 M saline/0.09 M sodium citrate) and remain bound when subjected to washing at 55°C in 1XSSC. Sequence identity can be determined by hybridization under stringent conditions, for example, at 50°C or higher and 0.1XSSC (9 mM saline/0.9 mM sodium citrate). Hybridization methods and conditions are well known in the art, see, *e.g.*, USPN 5,707,829. Nucleic acids that are substantially identical to the provided polynucleotide sequences, *e.g.* allelic variants, genetically altered versions of the gene,

etc., bind to the provided polynucleotide sequences (SEQ ID NOS:1-2707) under stringent hybridization conditions. By using probes, particularly labeled probes of DNA sequences, one can isolate homologous or related genes. The source of homologous genes can be any species, *e.g.* primate species, particularly human; rodents, such as rats and mice; canines, felines, bovines, ovines, equines, yeast, nematodes, *etc.*

Preferably, hybridization is performed using at least 15 contiguous nucleotides (nt) of at least one of SEQ ID NOS:1-2707. That is, when at least 15 contiguous nt of one of the disclosed SEQ ID NOS. is used as a probe, the probe will preferentially hybridize with a nucleic acid comprising the complementary sequence, allowing the identification and retrieval of the nucleic acids that uniquely hybridize to the selected probe. Probes from more than one SEQ ID NO. can hybridize with the same nucleic acid if the cDNA from which they were derived corresponds to one mRNA. Probes of more than 15 nt can be used, *e.g.*, probes of from about 18 nt to about 100 nt, but 15 nt represents sufficient sequence for unique identification.

The polynucleotides of the invention also include naturally occurring variants of the nucleotide sequences (*e.g.*, degenerate variants, allelic variants, *etc.*). Variants of the polynucleotides of the invention are identified by hybridization of putative variants with nucleotide sequences disclosed herein, preferably by hybridization under stringent conditions. For example, by using appropriate wash conditions, variants of the polynucleotides of the invention can be identified where the allelic variant exhibits at most about 25-30% base pair (bp) mismatches relative to the selected polynucleotide probe. In general, allelic variants contain 15-25% bp mismatches, and can contain as little as even 5-15%, or 2-5%, or 1-2% bp mismatches, as well as a single bp mismatch.

The invention also encompasses homologs corresponding to the polynucleotides of SEQ ID NOS:1-2707, where the source of homologous genes can be any mammalian species, *e.g.*, primate species, particularly human; rodents, such as rats; canines, felines, bovines, ovines, equines, yeast, nematodes, *etc.* Between mammalian species, *e.g.*, human and mouse, homologs generally have substantial sequence similarity, *e.g.*, at least 75% sequence identity, usually at least 90%, more usually at least 95% between nucleotide sequences. Sequence similarity is calculated based on a reference sequence, which may be a subset of a larger sequence, such as a conserved motif, coding region, flanking region, *etc.* A reference sequence will usually be at least about 18 contiguous nt long, more usually at least about 30 nt long, and may extend to the complete sequence that is being compared. Algorithms for sequence analysis are known in the art, such as gapped BLAST, described in Altschul, et al. *Nucleic Acids Res.* (1997) 25:3389-3402.

In general, variants of the invention have a sequence identity greater than at least about 65%, preferably at least about 75%, more preferably at least about 85%, and can be greater than at least about 90% or more as determined by the Smith-Waterman homology search algorithm as

implemented in MPSRCH program (Oxford Molecular). For the purposes of this invention, a preferred method of calculating percent identity is the Smith-Waterman algorithm, using the following. Global DNA sequence identity must be greater than 65% as determined by the Smith-Waterman homology search algorithm as implemented in MPSRCH program (Oxford Molecular) using an affine gap search with the following search parameters: gap open penalty, 12; and gap extension penalty, 1.

The subject nucleic acids can be cDNAs or genomic DNAs, as well as fragments thereof, particularly fragments that encode a biologically active gene product and/or are useful in the methods disclosed herein (*e.g.*, in diagnosis, as a unique identifier of a differentially expressed gene of interest, *etc.*). The term "cDNA" as used herein is intended to include all nucleic acids that share the arrangement of sequence elements found in native mature mRNA species, where sequence elements are exons and 3' and 5' non-coding regions. Normally mRNA species have contiguous exons, with the intervening introns, when present, being removed by nuclear RNA splicing, to create a continuous open reading frame encoding a polypeptide of the invention.

A genomic sequence of interest comprises the nucleic acid present between the initiation codon and the stop codon, as defined in the listed sequences, including all of the introns that are normally present in a native chromosome. It can further include the 3' and 5' untranslated regions found in the mature mRNA. It can further include specific transcriptional and translational regulatory sequences, such as promoters, enhancers, *etc.*, including about 1 kb, but possibly more, of flanking genomic DNA at either the 5' and 3' end of the transcribed region. The genomic DNA can be isolated as a fragment of 100 kbp or smaller; and substantially free of flanking chromosomal sequence. The genomic DNA flanking the coding region, either 3' and 5', or internal regulatory sequences as sometimes found in introns, contains sequences required for proper tissue, stage-specific, or disease-state specific expression.

The nucleic acid compositions of the subject invention can encode all or a part of the subject polypeptides. Double or single stranded fragments can be obtained from the DNA sequence by chemically synthesizing oligonucleotides in accordance with conventional methods, by restriction enzyme digestion, by PCR amplification, *etc.* Isolated polynucleotides and polynucleotide fragments of the invention comprise at least about 10, about 15, about 20, about 35, about 50, about 100, about 150 to about 200, about 250 to about 300, or about 350 contiguous nt selected from the polynucleotide sequences as shown in SEQ ID NOS:1-2707. For the most part, fragments will be of at least 15 nt, usually at least 18 nt or 25 nt, and up to at least about 50 contiguous nt in length or more. In a preferred embodiment, the polynucleotide molecules comprise a contiguous sequence of at least 12 nt selected from the group consisting of the polynucleotides shown in SEQ ID NOS:1-2707.

Probes specific to the polynucleotides of the invention can be generated using the polynucleotide sequences disclosed in SEQ ID NOS:1-2707. The probes are preferably at least about a 12, 15, 16, 18, 20, 22, 24, or 25 nt fragment of a corresponding contiguous sequence of SEQ ID NOS:1-2707, and can be less than 2, 1, 0.5, 0.1, or 0.05 kb in length. The probes can be
5 synthesized chemically or can be generated from longer polynucleotides using restriction enzymes. The probes can be labeled, for example, with a radioactive, biotinylated, or fluorescent tag. Preferably, probes are designed based upon an identifying sequence of a polynucleotide of one of SEQ ID NOS:1-2707. More preferably, probes are designed based on a contiguous sequence of one of the subject polynucleotides that remain unmasked following application of a masking program for
10 masking low complexity (*e.g.*, XBLAST) to the sequence.. *i.e.*, one would select an unmasked region, as indicated by the polynucleotides outside the poly-n stretches of the masked sequence produced by the masking program.

The polynucleotides of the subject invention are isolated and obtained in substantial purity, generally as other than an intact chromosome. Usually, the polynucleotides, either as DNA or RNA,
15 will be obtained substantially free of other naturally-occurring nucleic acid sequences, generally being at least about 50%, usually at least about 90% pure and are typically "recombinant", *e.g.*, flanked by one or more nucleotides with which it is not normally associated on a naturally occurring chromosome.

The polynucleotides of the invention can be provided as a linear molecule or within a
20 circular molecule, and can be provided within autonomously replicating molecules (vectors) or within molecules without replication sequences. Expression of the polynucleotides can be regulated by their own or by other regulatory sequences known in the art. The polynucleotides of the invention can be introduced into suitable host cells using a variety of techniques available in the art, such as transferrin polycation-mediated DNA transfer, transfection with naked or encapsulated
25 nucleic acids, liposome-mediated DNA transfer, intracellular transportation of DNA-coated latex beads, protoplast fusion, viral infection, electroporation, gene gun, calcium phosphate-mediated transfection, and the like.

The subject nucleic acid compositions can be used to, for example, produce polypeptides, as probes for the detection of mRNA of the invention in biological samples (*e.g.*, extracts of human
30 cells) to generate additional copies of the polynucleotides, to generate ribozymes or antisense oligonucleotides, and as single stranded DNA probes or as triple-strand forming oligonucleotides. The probes described herein can be used to, for example, determine the presence or absence of the polynucleotide sequences as shown in SEQ ID NOS:1-2707 or variants thereof in a sample. These and other uses are described in more detail below.

Use of Polynucleotides to Obtain Full-Length cDNA, Gene, and Promoter Region

Full-length cDNA molecules comprising the disclosed polynucleotides are obtained as follows. A polynucleotide having a sequence of one of SEQ ID NOS:1-2707, or a portion thereof comprising at least 12, 15, 18, or 20 nt, is used as a hybridization probe to detect hybridizing
5 members of a cDNA library using probe design methods, cloning methods, and clone selection techniques such as those described in USPN 5,654,173. Libraries of cDNA are made from selected tissues, such as normal or tumor tissue, or from tissues of a mammal treated with, for example, a pharmaceutical agent. Preferably, the tissue is the same as the tissue from which the polynucleotides of the invention were isolated, as both the polynucleotides described herein and the
10 cDNA represent expressed genes. Most preferably, the cDNA library is made from the biological material described herein in the Examples. The choice of cell type for library construction can be made after the identity of the protein encoded by the gene corresponding to the polynucleotide of the invention is known. This will indicate which tissue and cell types are likely to express the related gene, and thus represent a suitable source for the mRNA for generating the cDNA. Where the
15 provided polynucleotides are isolated from cDNA libraries, the libraries are prepared from mRNA of human colon cells, more preferably, human colon cancer cells, even more preferably, from a highly metastatic colon cell, Km12L4-A.

Techniques for producing and probing nucleic acid sequence libraries are described, for example, in Sambrook *et al.*, *Molecular Cloning: A Laboratory Manual, 2nd Ed.*, (1989) Cold
20 Spring Harbor Press, Cold Spring Harbor, NY. The cDNA can be prepared by using primers based on sequence from SEQ ID NOS:1-2707. In one embodiment, the cDNA library can be made from only poly-adenylated mRNA. Thus, poly-T primers can be used to prepare cDNA from the mRNA.

Members of the library that are larger than the provided polynucleotides, and preferably that encompass the complete coding sequence of the native message, are obtained. In order to confirm
25 that the entire cDNA has been obtained, RNA protection experiments are performed as follows. Hybridization of a full-length cDNA to an mRNA will protect the RNA from RNase degradation. If the cDNA is not full length, then the portions of the mRNA that are not hybridized will be subject to RNase degradation. This is assayed, as is known in the art, by changes in electrophoretic mobility on polyacrylamide gels, or by detection of released monoribonucleotides. Sambrook *et al.*,
30 *Molecular Cloning: A Laboratory Manual, 2nd Ed.*, (1989) Cold Spring Harbor Press, Cold Spring Harbor, NY. In order to obtain additional sequences 5' to the end of a partial cDNA, 5' RACE (*PCR Protocols: A Guide to Methods and Applications*, (1990) Academic Press, Inc.) can be performed.

Genomic DNA is isolated using the provided polynucleotides in a manner similar to the isolation of full-length cDNAs. Briefly, the provided polynucleotides, or portions thereof, are used
35 as probes to libraries of genomic DNA. Preferably, the library is obtained from the cell type that

was used to generate the polynucleotides of the invention, but this is not essential. Most preferably, the genomic DNA is obtained from the biological material described herein in the Examples. Such libraries can be in vectors suitable for carrying large segments of a genome, such as P1 or YAC, as described in detail in Sambrook *et al.*, 9.4-9.30. In addition, genomic sequences can be isolated
5 from human BAC libraries, which are commercially available from Research Genetics, Inc., Huntsville, Alabama, USA, for example. In order to obtain additional 5' or 3' sequences, chromosome walking is performed, as described in Sambrook *et al.*, such that adjacent and overlapping fragments of genomic DNA are isolated. These are mapped and pieced together, as is known in the art, using restriction digestion enzymes and DNA ligase.

10 Using the polynucleotide sequences of the invention, corresponding full-length genes can be isolated using both classical and PCR methods to construct and probe cDNA libraries. Using either method, Northern blots, preferably, are performed on a number of cell types to determine which cell lines express the gene of interest at the highest level. Classical methods of constructing cDNA
15 libraries are taught in Sambrook *et al.*, *supra*. With these methods, cDNA can be produced from mRNA and inserted into viral or expression vectors. Typically, libraries of mRNA comprising poly(A) tails can be produced with poly(T) primers. Similarly, cDNA libraries can be produced using the instant sequences as primers.

PCR methods are used to amplify the members of a cDNA library that comprise the desired insert. In this case, the desired insert will contain sequence from the full length cDNA that
20 corresponds to the instant polynucleotides. Such PCR methods include gene trapping and RACE methods. Gene trapping entails inserting a member of a cDNA library into a vector. The vector then is denatured to produce single stranded molecules. Next, a substrate-bound probe, such a biotinylated oligo, is used to trap cDNA inserts of interest. Biotinylated probes can be linked to an avidin-bound solid substrate. PCR methods can be used to amplify the trapped cDNA. To trap
25 sequences corresponding to the full length genes, the labeled probe sequence is based on the polynucleotide sequences of the invention. Random primers or primers specific to the library vector can be used to amplify the trapped cDNA. Such gene trapping techniques are described in Gruber *et al.*, WO 95/04745 and Gruber *et al.*, USPN 5,500,356. Kits are commercially available to perform gene trapping experiments from, for example, Life Technologies, Gaithersburg, Maryland, USA.

30 "Rapid amplification of cDNA ends," or RACE, is a PCR method of amplifying cDNAs from a number of different RNAs. The cDNAs are ligated to an oligonucleotide linker, and amplified by PCR using two primers. One primer is based on sequence from the instant polynucleotides, for which full length sequence is desired, and a second primer comprises sequence that hybridizes to the oligonucleotide linker to amplify the cDNA. A description of this methods is
35 reported in WO 97/19110. In preferred embodiments of RACE, a common primer is designed to

anneal to an arbitrary adaptor sequence ligated to cDNA ends (Apte and Siebert, *Biotechniques* (1993) 15:890-893; Edwards *et al.*, *Nuc. Acids Res.* (1991) 19:5227-5232). When a single gene-specific RACE primer is paired with the common primer, preferential amplification of sequences between the single gene specific primer and the common primer occurs. Commercial cDNA pools
5 modified for use in RACE are available.

Another PCR-based method generates full-length cDNA library with anchored ends without needing specific knowledge of the cDNA sequence. The method uses lock-docking primers (I-VI), where one primer, poly TV (I-III) locks over the polyA tail of eukaryotic mRNA producing first strand synthesis and a second primer, polyGH (IV-VI) locks onto the polyC tail added by terminal
10 deoxynucleotidyl transferase (TdT)(see, e.g., WO 96/40998).

The promoter region of a gene generally is located 5' to the initiation site for RNA polymerase II. Hundreds of promoter regions contain the "TATA" box, a sequence such as TATTA or TATAA, which is sensitive to mutations. The promoter region can be obtained by performing 5' RACE using a primer from the coding region of the gene. Alternatively, the cDNA can be used as a
15 probe for the genomic sequence, and the region 5' to the coding region is identified by "walking up." If the gene is highly expressed or differentially expressed, the promoter from the gene can be of use in a regulatory construct for a heterologous gene.

Once the full-length cDNA or gene is obtained, DNA encoding variants can be prepared by site-directed mutagenesis, described in detail in Sambrook *et al.*, 15.3-15.63. The choice of codon or
20 nucleotide to be replaced can be based on disclosure herein on optional changes in amino acids to achieve altered protein structure and/or function.

As an alternative method to obtaining DNA or RNA from a biological material, nucleic acid comprising nucleotides having the sequence of one or more polynucleotides of the invention can be synthesized. Thus, the invention encompasses nucleic acid molecules ranging in length from 15 nt
25 (corresponding to at least 15 contiguous nt of one of SEQ ID NOS:1-2707) up to a maximum length suitable for one or more biological manipulations, including replication and expression, of the nucleic acid molecule. The invention includes but is not limited to (a) nucleic acid having the size of a full gene, and comprising at least one of SEQ ID NOS:1-2707; (b) the nucleic acid of (a) also comprising at least one additional gene, operably linked to permit expression of a fusion protein; (c)
30 an expression vector comprising (a) or (b); (d) a plasmid comprising (a) or (b); and (e) a recombinant viral particle comprising (a) or (b). Once provided with the polynucleotides disclosed herein, construction or preparation of (a) - (e) are well within the skill in the art.

The sequence of a nucleic acid comprising at least 15 contiguous nt of at least any one of SEQ ID NOS:1-2707, preferably the entire sequence of at least any one of SEQ ID NOS:1-2707, is
35 not limited and can be any sequence of A, T, G, and/or C (for DNA) and A, U, G, and/or C (for

RNA) or modified bases thereof, including inosine and pseudouridine. The choice of sequence will depend on the desired function and can be dictated by coding regions desired, the intron-like regions desired, and the regulatory regions desired. Where the entire sequence of any one of SEQ ID NOS:1-2707 is within the nucleic acid, the nucleic acid obtained is referred to herein as a
5 polynucleotide comprising the sequence of any one of SEQ ID NOS:1-2707.

Expression of Polypeptide Encoded by Full-Length cDNA or Full-Length Gene

The provided polynucleotides (e.g., a polynucleotide having a sequence of one of SEQ ID NOS:1-2707), the corresponding cDNA, or the full-length gene is used to express a partial or complete gene product. Constructs of polynucleotides having sequences of SEQ ID NOS:1-2707
10 can also be generated synthetically. Alternatively, single-step assembly of a gene and entire plasmid from large numbers of oligodeoxyribonucleotides is described by, e.g., Stemmer *et al.*, *Gene (Amsterdam)* (1995) 164(1):49-53. In this method, assembly PCR (the synthesis of long DNA sequences from large numbers of oligodeoxyribonucleotides (oligos)) is described. The method is derived from DNA shuffling (Stemmer, *Nature* (1994) 370:389-391), and does not rely on DNA
15 ligase, but instead relies on DNA polymerase to build increasingly longer DNA fragments during the assembly process.

Appropriate polynucleotide constructs are purified using standard recombinant DNA techniques as described in, for example, Sambrook *et al.*, *Molecular Cloning: A Laboratory Manual*, 2nd Ed., (1989) Cold Spring Harbor Press, Cold Spring Harbor, NY, and under current regulations
20 described in United States Dept. of HHS, National Institute of Health (NIH) Guidelines for Recombinant DNA Research. The gene product encoded by a polynucleotide of the invention is expressed in any expression system, including, for example, bacterial, yeast, insect, amphibian and mammalian systems. Vectors, host cells and methods for obtaining expression in same are well known in the art. Suitable vectors and host cells are described in USPN 5,654,173.

Polynucleotide molecules comprising a polynucleotide sequence provided herein are generally propagated by placing the molecule in a vector. Viral and non-viral vectors are used, including plasmids. The choice of plasmid will depend on the type of cell in which propagation is desired and the purpose of propagation. Certain vectors are useful for amplifying and making large amounts of the desired DNA sequence. Other vectors are suitable for expression in cells in culture.
30 Still other vectors are suitable for transfer and expression in cells in a whole animal or person. The choice of appropriate vector is well within the skill of the art. Many such vectors are available commercially. Methods for preparation of vectors comprising a desired sequence are well known in the art.

The polynucleotides set forth in SEQ ID NOS:1-2707 or their corresponding full-length
35 polynucleotides are linked to regulatory sequences as appropriate to obtain the desired expression

properties. These can include promoters (attached either at the 5' end of the sense strand or at the 3' end of the antisense strand), enhancers, terminators, operators, repressors, and inducers. The promoters can be regulated or constitutive. In some situations it may be desirable to use conditionally active promoters, such as tissue-specific or developmental stage-specific promoters.

- 5 These are linked to the desired nucleotide sequence using the techniques described above for linkage to vectors. Any techniques known in the art can be used.

When any of the above host cells, or other appropriate host cells or organisms, are used to replicate and/or express the polynucleotides or nucleic acids of the invention, the resulting replicated nucleic acid, RNA, expressed protein or polypeptide, is within the scope of the invention as a
10 product of the host cell or organism. The product is recovered by any appropriate means known in the art.

Once the gene corresponding to a selected polynucleotide is identified, its expression can be regulated in the cell to which the gene is native. For example, an endogenous gene of a cell can be regulated by an exogenous regulatory sequence as disclosed in USPN 5,641,670.

15

Identification of Functional and Structural Motifs of Novel Genes Screening Against Publicly Available Databases

Translations of the nucleotide sequence of the provided polynucleotides, cDNAs or full genes can be aligned with individual known sequences. Similarity with individual sequences can be
20 used to determine the activity of the polypeptides encoded by the polynucleotides of the invention. Also, sequences exhibiting similarity with more than one individual sequence can exhibit activities that are characteristic of either or both individual sequences.

The full length sequences and fragments of the polynucleotide sequences of the nearest neighbors can be used as probes and primers to identify and isolate the full length sequence
25 corresponding to provided polynucleotides. The nearest neighbors can indicate a tissue or cell type to be used to construct a library for the full-length sequences corresponding to the provided polynucleotides.

Typically, a selected polynucleotide is translated in all six frames to determine the best alignment with the individual sequences. The sequences disclosed herein in the Sequence Listing
30 are in a 5' to 3' orientation and translation in three frames can be sufficient (with a few specific exceptions as described in the Examples). These amino acid sequences are referred to, generally, as query sequences, which will be aligned with the individual sequences. Databases with individual sequences are described in "Computer Methods for Macromolecular Sequence Analysis" *Methods in Enzymology* (1996) 266, Doolittle, Academic Press, Inc., a division of Harcourt Brace & Co., San
35 Diego, California, USA. Databases include GenBank, EMBL, and DNA Database of Japan (DDBJ).

Query and individual sequences can be aligned using the methods and computer programs described above, and include BLAST 2.0, available over the world wide web at <http://www.ncbi.nlm.nih.gov/BLAST/>. See also Altschul, et al. *Nucleic Acids Res.* (1997) 25:3389-3402. Another alignment algorithm is Fasta, available in the Genetics Computing Group (GCG) package, Madison, Wisconsin, USA, a wholly owned subsidiary of Oxford Molecular Group, Inc. Other techniques for alignment are described in Doolittle, *supra*. Preferably, an alignment program that permits gaps in the sequence is utilized to align the sequences. The Smith-Waterman is one type of algorithm that permits gaps in sequence alignments. See *Meth. Mol. Biol.* (1997) 70: 173-187. Also, the GAP program using the Needleman and Wunsch alignment method can be utilized to align sequences. An alternative search strategy uses MPSRCH software, which runs on a MASPAR computer. MPSRCH uses a Smith-Waterman algorithm to score sequences on a massively parallel computer. This approach improves ability to identify sequences that are distantly related matches, and is especially tolerant of small gaps and nucleotide sequence errors. Amino acid sequences encoded by the provided polynucleotides can be used to search both protein and DNA databases. Incorporated herein by reference are all sequences that have been made public as of the filing date of this application by any of the DNA or protein sequence databases, including the patent databases (e.g., GeneSeq). Also incorporated by reference are those sequences that have been submitted to these databases as of the filing date of the present application but not made public until after the filing date of the present application.

Results of individual and query sequence alignments can be divided into three categories: high similarity, weak similarity, and no similarity. Individual alignment results ranging from high similarity to weak similarity provide a basis for determining polypeptide activity and/or structure. Parameters for categorizing individual results include: percentage of the alignment region length where the strongest alignment is found, percent sequence identity, and p value. The percentage of the alignment region length is calculated by counting the number of residues of the individual sequence found in the region of strongest alignment, e.g., contiguous region of the individual sequence that contains the greatest number of residues that are identical to the residues of the corresponding region of the aligned query sequence. This number is divided by the total residue length of the query sequence to calculate a percentage. For example, a query sequence of 20 amino acid residues might be aligned with a 20 amino acid region of an individual sequence. The individual sequence might be identical to amino acid residues 5, 9-15, and 17-19 of the query sequence. The region of strongest alignment is thus the region stretching from residue 9-19, an 11 amino acid stretch. The percentage of the alignment region length is: 11 (length of the region of strongest alignment) divided by (query sequence length) 20 or 55%.

Percent sequence identity is calculated by counting the number of amino acid matches between the query and individual sequence and dividing total number of matches by the number of residues of the individual sequences found in the region of strongest alignment. Thus, the percent identity in the example above would be 10 matches divided by 11 amino acids, or approximately,

5 90.9%

P value is the probability that the alignment was produced by chance. For a single alignment, the p value can be calculated according to Karlin *et al.*, *Proc. Natl. Acad. Sci.* (1990) 87:2264 and Karlin *et al.*, *Proc. Natl. Acad. Sci.* (1993) 90. The p value of multiple alignments using the same query sequence can be calculated using an heuristic approach described in Altschul *et al.*, *Nat. Genet.* (1994) 6:119. Alignment programs such as BLAST program can calculate the p value. See also Altschul *et al.*, *Nucleic Acids Res.* (1997) 25:3389-3402.

Another factor to consider for determining identity or similarity is the location of the similarity or identity. Strong local alignment can indicate similarity even if the length of alignment is short. Sequence identity scattered throughout the length of the query sequence also can indicate a similarity between the query and profile sequences. The boundaries of the region where the sequences align can be determined according to Doolittle, *supra*; BLAST 2.0 (see, *e.g.*, Altschul, *et al.*, *Nucleic Acids Res.* (1997) 25:3389-3402) or FAST programs; or by determining the area where sequence identity is highest.

High Similarity. In general, in alignment results considered to be of high similarity, the percent of the alignment region length is typically at least about 55% of total length query sequence; more typically, at least about 58%; even more typically, at least about 60% of the total residue length of the query sequence. Usually, percent length of the alignment region can be as much as about 62%; more usually, as much as about 64%; even more usually, as much as about 66%. Further, for high similarity, the region of alignment, typically, exhibits at least about 75% of sequence identity; more typically, at least about 78%; even more typically, at least about 80% sequence identity. Usually, percent sequence identity can be as much as about 82%; more usually, as much as about 84%; even more usually, as much as about 86%.

The p value is used in conjunction with these methods. If high similarity is found, the query sequence is considered to have high similarity with a profile sequence when the p value is less than or equal to about 10^{-2} ; more usually, less than or equal to about 10^{-3} ; even more usually, less than or equal to about 10^{-4} . More typically, the p value is no more than about 10^{-5} ; more typically, no more than or equal to about 10^{-10} ; even more typically, no more than or equal to about 10^{-15} for the query sequence to be considered high similarity.

Weak Similarity. In general, where alignment results considered to be of weak similarity, there is no minimum percent length of the alignment region nor minimum length of alignment. A better showing of weak similarity is considered when the region of alignment is, typically, at least about 15 amino acid residues in length; more typically, at least about 20; even more typically, at least about 25 amino acid residues in length. Usually, length of the alignment region can be as much as about 30 amino acid residues; more usually, as much as about 40; even more usually, as much as about 60 amino acid residues. Further, for weak similarity, the region of alignment, typically, exhibits at least about 35% of sequence identity; more typically, at least about 40%; even more typically, at least about 45% sequence identity. Usually, percent sequence identity can be as much as about 50%; more usually, as much as about 55%; even more usually, as much as about 60%.

If low similarity is found, the query sequence is considered to have weak similarity with a profile sequence when the p value is usually less than or equal to about 10^{-2} ; more usually; less than or equal to about 10^{-3} ; even more usually; less than or equal to about 10^{-4} . More typically, the p value is no more than about 10^{-5} ; more usually; no more than or equal to about 10^{-10} ; even more usually; no more than or equal to about 10^{-15} for the query sequence to be considered weak similarity.

Similarity Determined by Sequence Identity Alone. Sequence identity alone can be used to determine similarity of a query sequence to an individual sequence and can indicate the activity of the sequence. Such an alignment, preferably, permits gaps to align sequences. Typically, the query sequence is related to the profile sequence if the sequence identity over the entire query sequence is at least about 15%; more typically, at least about 20%; even more typically, at least about 25%; even more typically, at least about 50%. Sequence identity alone as a measure of similarity is most useful when the query sequence is usually, at least 80 residues in length; more usually, 90 residues; even more usually, at least 95 amino acid residues in length. More typically, similarity can be concluded based on sequence identity alone when the query sequence is preferably 100 residues in length; more preferably, 120 residues in length; even more preferably, 150 amino acid residues in length.

Alignments with Profile and Multiple Aligned Sequences. Translations of the provided polynucleotides can be aligned with amino acid profiles that define either protein families or common motifs. Also, translations of the provided polynucleotides can be aligned to multiple sequence alignments (MSA) comprising the polypeptide sequences of members of protein families or motifs. Similarity or identity with profile sequences or MSAs can be used to determine the activity of the gene products (*e.g.*, polypeptides) encoded by the provided polynucleotides or

corresponding cDNA or genes. For example, sequences that show an identity or similarity with a chemokine profile or MSA can exhibit chemokine activities.

Profiles can be designed manually by (1) creating an MSA, which is an alignment of the amino acid sequence of members that belong to the family and (2) constructing a statistical representation of the alignment. Such methods are described, for example, in Birney *et al.*, *Nucl. Acid Res.* (1996) 24(14): 2730-2739. MSAs of some protein families and motifs are publicly available. For example, <http://genome.wustl.edu/Pfam/> includes MSAs of 547 different families and motifs. These MSAs are described also in Sonnhammer *et al.*, *Proteins* (1997) 28: 405-420. Other sources over the world wide web include the site at <http://www.embl-heidelberg.de/argos/ali/ali.html>; alternatively, a message can be sent to ALI@EMBL-HEIDELBERG.DE for the information. A brief description of these MSAs is reported in Pascarella *et al.*, *Prot. Eng.* (1996) 9(3):249-251. Techniques for building profiles from MSAs are described in Sonnhammer *et al.*, *supra*; Birney *et al.*, *supra*; and "Computer Methods for Macromolecular Sequence Analysis," *Methods in Enzymology* (1996) 266, Doolittle, Academic Press, Inc., San Diego, California, USA.

Similarity between a query sequence and a protein family or motif can be determined by (a) comparing the query sequence against the profile and/or (b) aligning the query sequence with the members of the family or motif. Typically, a program such as Searchwise is used to compare the query sequence to the statistical representation of the multiple alignment, also known as a profile (see Birney *et al.*, *supra*). Other techniques to compare the sequence and profile are described in Sonnhammer *et al.*, *supra* and Doolittle, *supra*.

Next, methods described by Feng *et al.*, *J. Mol. Evol.* (1987) 25:351 and Higgins *et al.*, *CABIOS* (1989) 5:151 can be used to align the query sequence with the members of a family or motif, also known as a MSA. Sequence alignments can be generated using any of a variety of software tools. Examples include PileUp, which creates a multiple sequence alignment, and is described in Feng *et al.*, *J. Mol. Evol.* (1987) 25:351. Another method, GAP, uses the alignment method of Needleman *et al.*, *J. Mol. Biol.* (1970) 48:443. GAP is best suited for global alignment of sequences. A third method, BestFit, functions by inserting gaps to maximize the number of matches using the local homology algorithm of Smith *et al.*, *Adv. Appl. Math.* (1981) 2:482. In general, the following factors are used to determine if a similarity between a query sequence and a profile or MSA exists:

- (1) number of conserved residues found in the query sequence,
- (2) percentage of conserved residues found in the query sequence,
- (3) number of frameshifts, and
- (4) spacing between conserved residues.

Some alignment programs that both translate and align sequences can make any number of frameshifts when translating the nucleotide sequence to produce the best alignment. The fewer frameshifts needed to produce an alignment, the stronger the similarity or identity between the query and profile or MSAs. For example, a weak similarity resulting from no frameshifts can be a better

indication of activity or structure of a query sequence, than a strong similarity resulting from two frameshifts. Preferably, three or fewer frameshifts are found in an alignment: more preferably two or fewer frameshifts: even more preferably, one or fewer frameshifts: even more preferably, no frameshifts are found in an alignment of query and profile or MSAs.

5 Conserved residues are those amino acids found at a particular position in all or some of the family or motif members. Alternatively, a position is considered conserved if only a certain class of amino acids is found in a particular position in all or some of the family members. For example, the N-terminal position can contain a positively charged amino acid, such as lysine, arginine, or histidine.

10 Typically, a residue of a polypeptide is conserved when a class of amino acids or a single amino acid is found at a particular position in at least about 40% of all class members: more typically, at least about 50%: even more typically, at least about 60% of the members. Usually, a residue is conserved when a class or single amino acid is found in at least about 70% of the members of a family or motif: more usually, at least about 80%: even more usually, at least about 90%: even
15 more usually, at least about 95%.

A residue is considered conserved when three unrelated amino acids are found at a particular position in the some or all of the members: more usually, two unrelated amino acids. These residues are conserved when the unrelated amino acids are found at particular positions in at least about 40% of all class member: more typically, at least about 50%: even more typically, at least about 60% of
20 the members. Usually, a residue is conserved when a class or single amino acid is found in at least about 70% of the members of a family or motif: more usually, at least about 80%: even more usually, at least about 90%: even more usually, at least about 95%.

A query sequence has similarity to a profile or MSA when the query sequence comprises at least about 25% of the conserved residues of the profile or MSA: more usually, at least about 30%:
25 even more usually: at least about 40%. Typically, the query sequence has a stronger similarity to a profile sequence or MSA when the query sequence comprises at least about 45% of the conserved residues of the profile or MSA: more typically, at least about 50%: even more typically: at least about 55%.

Identification of Secreted & Membrane-Bound Polypeptides

30 Both secreted and membrane-bound polypeptides of the present invention are of particular interest. For example, levels of secreted polypeptides can be assayed in body fluids that are convenient, such as blood, plasma, serum, and other body fluids such as urine, prostatic fluid and semen. Membrane-bound polypeptides are useful for constructing vaccine antigens or inducing an immune response.. Such antigens would comprise all or part of the extracellular region of the
35 membrane-bound polypeptides. Because both secreted and membrane-bound polypeptides comprise

a fragment of contiguous hydrophobic amino acids. hydrophobicity predicting algorithms can be used to identify such polypeptides.

A signal sequence is usually encoded by both secreted and membrane-bound polypeptide genes to direct a polypeptide to the surface of the cell. The signal sequence usually comprises a stretch of hydrophobic residues. Such signal sequences can fold into helical structures. Membrane-bound polypeptides typically comprise at least one transmembrane region that possesses a stretch of hydrophobic amino acids that can transverse the membrane. Some transmembrane regions also exhibit a helical structure. Hydrophobic fragments within a polypeptide can be identified by using computer algorithms. Such algorithms include Hopp & Woods, *Proc. Natl. Acad. Sci. USA* (1981) 78:3824-3828; Kyte & Doolittle, *J. Mol. Biol.* (1982) 157: 105-132; and RAOAR algorithm, Degli Esposti *et al.*, *Eur. J. Biochem.* (1990) 190: 207-219.

Another method of identifying secreted and membrane-bound polypeptides is to translate the polynucleotides of the invention in all six frames and determine if at least 8 contiguous hydrophobic amino acids are present. Those translated polypeptides with at least 8; more typically, 10; even more typically, 12 contiguous hydrophobic amino acids are considered to be either a putative secreted or membrane bound polypeptide. Hydrophobic amino acids include alanine, glycine, histidine, isoleucine, leucine, lysine, methionine, phenylalanine, proline, threonine, tryptophan, tyrosine, and valine

Identification of the Function of an Expression Product of a Full-Length Gene

Ribozymes, antisense constructs, and dominant negative mutants can be used to determine function of the expression product of a gene corresponding to a polynucleotide provided herein. These methods and compositions are particularly useful where the provided novel polynucleotide exhibits no significant or substantial homology to a sequence encoding a gene of known function. Antisense molecules and ribozymes can be constructed from synthetic polynucleotides. Typically, the phosphoramidite method of oligonucleotide synthesis is used. See Beaucage *et al.*, *Tet. Lett.* (1981) 22:1859 and USPN 4,668,777. Automated devices for synthesis are available to create oligonucleotides using this chemistry. Examples of such devices include Biosearch 8600, Models 392 and 394 by Applied Biosystems, a division of Perkin-Elmer Corp., Foster City, California, USA; and Expedite by Perceptive Biosystems, Framingham, Massachusetts, USA. Synthetic RNA, phosphate analog oligonucleotides, and chemically derivatized oligonucleotides can also be produced, and can be covalently attached to other molecules. RNA oligonucleotides can be synthesized, for example, using RNA phosphoramidites. This method can be performed on an automated synthesizer, such as Applied Biosystems, Models 392 and 394, Foster City, California, USA.

Phosphorothioate oligonucleotides can also be synthesized for antisense construction. A sulfurizing reagent, such as tetraethylthiuram disulfide (TETD) in acetonitrile can be used to convert the internucleotide cyanoethyl phosphite to the phosphorothioate triester within 15 minutes at room temperature. TETD replaces the iodine reagent, while all other reagents used for standard phosphoramidite chemistry remain the same. Such a synthesis method can be automated using Models 392 and 394 by Applied Biosystems, for example.

Oligonucleotides of up to 200 nt can be synthesized, more typically, 100 nt, more typically 50 nt; even more typically 30 to 40 nt. These synthetic fragments can be annealed and ligated together to construct larger fragments. See, for example, Sambrook *et al.*, *supra*. Trans-cleaving catalytic RNAs (ribozymes) are RNA molecules possessing endoribonuclease activity. Ribozymes are specifically designed for a particular target, and the target message must contain a specific nucleotide sequence. They are engineered to cleave any RNA species site-specifically in the background of cellular RNA. The cleavage event renders the mRNA unstable and prevents protein expression. Importantly, ribozymes can be used to inhibit expression of a gene of unknown function for the purpose of determining its function in an in vitro or in vivo context, by detecting the phenotypic effect. One commonly used ribozyme motif is the hammerhead, for which the substrate sequence requirements are minimal. Design of the hammerhead ribozyme, as well as therapeutic uses of ribozymes, are disclosed in Usman *et al.*, *Current Opin. Struct. Biol.* (1996) 6:527. Methods for production of ribozymes, including hairpin structure ribozyme fragments, methods of increasing ribozyme specificity, and the like are known in the art.

The hybridizing region of the ribozyme can be modified or can be prepared as a branched structure as described in Horn and Urdea, *Nucleic Acids Res.* (1989) 17:6959. The basic structure of the ribozymes can also be chemically altered in ways familiar to those skilled in the art, and chemically synthesized ribozymes can be administered as synthetic oligonucleotide derivatives modified by monomeric units. In a therapeutic context, liposome mediated delivery of ribozymes improves cellular uptake, as described in Birikh *et al.*, *Eur. J. Biochem.* (1997) 245:1.

Antisense nucleic acids are designed to specifically bind to RNA, resulting in the formation of RNA-DNA or RNA-RNA hybrids, with an arrest of DNA replication, reverse transcription or messenger RNA translation. Antisense polynucleotides based on a selected polynucleotide sequence can interfere with expression of the corresponding gene. Antisense polynucleotides are typically generated within the cell by expression from antisense constructs that contain the antisense strand as the transcribed strand. Antisense polynucleotides based on the disclosed polynucleotides will bind and/or interfere with the translation of mRNA comprising a sequence complementary to the antisense polynucleotide. The expression products of control cells and cells treated with the antisense construct are compared to detect the protein product of the gene corresponding to the

polynucleotide upon which the antisense construct is based. The protein is isolated and identified using routine biochemical methods.

Given the extensive background literature and clinical experience in antisense therapy, one skilled in the art can use selected polynucleotides of the invention as additional potential
5 therapeutics. The choice of polynucleotide can be narrowed by first testing them for binding to "hot spot" regions of the genome of cancerous cells. If a polynucleotide is identified as binding to a "hot spot", testing the polynucleotide as an antisense compound in the corresponding cancer cells is warranted.

As an alternative method for identifying function of the gene corresponding to a
10 polynucleotide disclosed herein, dominant negative mutations are readily generated for corresponding proteins that are active as homomultimers. A mutant polypeptide will interact with wild-type polypeptides (made from the other allele) and form a non-functional multimer. Thus, a mutation is in a substrate-binding domain, a catalytic domain, or a cellular localization domain. Preferably, the mutant polypeptide will be overproduced. Point mutations are made that have such
15 an effect. In addition, fusion of different polypeptides of various lengths to the terminus of a protein can yield dominant negative mutants. General strategies are available for making dominant negative mutants (see, e.g., Herskowitz, *Nature* (1987) 329:219). Such techniques can be used to create loss of function mutations, which are useful for determining protein function.

Polypeptides and Variants Thereof

20 The polypeptides of the invention include those encoded by the disclosed polynucleotides, as well as nucleic acids that, by virtue of the degeneracy of the genetic code, are not identical in sequence to the disclosed polynucleotides. Thus, the invention includes within its scope a polypeptide encoded by a polynucleotide having the sequence of any one of SEQ ID NOS:1-2707 or a variant thereof.

25 In general, the term "polypeptide" as used herein refers to both the full length polypeptide encoded by the recited polynucleotide, the polypeptide encoded by the gene represented by the recited polynucleotide, as well as portions or fragments thereof. "Polypeptides" also includes variants of the naturally occurring proteins, where such variants are homologous or substantially similar to the naturally occurring protein, and can be of an origin of the same or different species as
30 the naturally occurring protein (e.g., human, murine, or some other species that naturally expresses the recited polypeptide, usually a mammalian species). In general, variant polypeptides have a sequence that has at least about 80%, usually at least about 90%, and more usually at least about 98% sequence identity with a differentially expressed polypeptide of the invention, as measured by BLAST 2.0 using the parameters described above. The variant polypeptides can be naturally or non-

naturally glycosylated. *i.e.*, the polypeptide has a glycosylation pattern that differs from the glycosylation pattern found in the corresponding naturally occurring protein.

The invention also encompasses homologs of the disclosed polypeptides (or fragments thereof) where the homologs are isolated from other species, *i.e.* other animal or plant species. where such homologs, usually mammalian species, *e.g.* rodents, such as mice, rats; domestic animals, *e.g.*, horse, cow, dog, cat; and humans. By "homolog" is meant a polypeptide having at least about 35%, usually at least about 40% and more usually at least about 60% amino acid sequence identity to a particular differentially expressed protein as identified above, where sequence identity is determined using the BLAST 2.0 algorithm, with the parameters described *supra*.

In general, the polypeptides of the subject invention are provided in a non-naturally occurring environment, *e.g.* are separated from their naturally occurring environment. In certain embodiments, the subject protein is present in a composition that is enriched for the protein as compared to a control. As such, purified polypeptide is provided, where by purified is meant that the protein is present in a composition that is substantially free of non-differentially expressed polypeptides, where by substantially free is meant that less than 90%, usually less than 60% and more usually less than 50% of the composition is made up of non-differentially expressed polypeptides.

Also within the scope of the invention are variants: variants of polypeptides include mutants, fragments, and fusions. Mutants can include amino acid substitutions, additions or deletions. The amino acid substitutions can be conservative amino acid substitutions or substitutions to eliminate non-essential amino acids, such as to alter a glycosylation site, a phosphorylation site or an acetylation site, or to minimize misfolding by substitution or deletion of one or more cysteine residues that are not necessary for function. Conservative amino acid substitutions are those that preserve the general charge, hydrophobicity/ hydrophilicity, and/or steric bulk of the amino acid substituted. Variants can be designed so as to retain or have enhanced biological activity of a particular region of the protein (*e.g.*, a functional domain and/or, where the polypeptide is a member of a protein family, a region associated with a consensus sequence). Selection of amino acid alterations for production of variants can be based upon the accessibility (interior vs. exterior) of the amino acid (see, *e.g.*, Go *et al.*, *Int. J. Peptide Protein Res.* (1980) 15:211), the thermostability of the variant polypeptide (see, *e.g.*, Querol *et al.*, *Prot. Eng.* (1996) 9:265), desired glycosylation sites (see, *e.g.*, Olsen and Thomsen, *J. Gen. Microbiol.* (1991) 137:579), desired disulfide bridges (see, *e.g.*, Clarke *et al.*, *Biochemistry* (1993) 32:4322; and Wakarchuk *et al.*, *Protein Eng.* (1994) 7:1379), desired metal binding sites (see, *e.g.*, Toma *et al.*, *Biochemistry* (1991) 30:97, and Haezlerbrouck *et al.*, *Protein Eng.* (1993) 6:643), and desired substitutions with in proline loops (see, *e.g.*, Masul *et*

al., Appl. Env. Microbiol. (1994) 60:3579). Cysteine-depleted muteins can be produced as disclosed in USPN 4.959.314.

Variants also include fragments of the polypeptides disclosed herein, particularly biologically active fragments and/or fragments corresponding to functional domains. Fragments of interest will typically be at least about 10 aa to at least about 15 aa in length, usually at least about 50 aa in length, and can be as long as 300 aa in length or longer, but will usually not exceed about 1000 aa in length, where the fragment will have a stretch of amino acids that is identical to a polypeptide encoded by a polynucleotide having a sequence of any SEQ ID NOS:1-2707, or a homolog thereof. The protein variants described herein are encoded by polynucleotides that are within the scope of the invention. The genetic code can be used to select the appropriate codons to construct the corresponding variants.

Computer-Related Embodiments

In general, a library of polynucleotides is a collection of sequence information, which information is provided in either biochemical form (*e.g.*, as a collection of polynucleotide molecules), or in electronic form (*e.g.*, as a collection of polynucleotide sequences stored in a computer-readable form, as in a computer system and/or as part of a computer program). The sequence information of the polynucleotides can be used in a variety of ways, *e.g.*, as a resource for gene discovery, as a representation of sequences expressed in a selected cell type (*e.g.*, cell type markers), and/or as markers of a given disease or disease state. In general, a disease marker is a representation of a gene product that is present in all cells affected by disease either at an increased or decreased level relative to a normal cell (*e.g.*, a cell of the same or similar type that is not substantially affected by disease). For example, a polynucleotide sequence in a library can be a polynucleotide that represents an mRNA, polypeptide, or other gene product encoded by the polynucleotide, that is either overexpressed or underexpressed in a breast ductal cell affected by cancer relative to a normal (*i.e.*, substantially disease-free) breast cell.

The nucleotide sequence information of the library can be embodied in any suitable form, *e.g.*, electronic or biochemical forms. For example, a library of sequence information embodied in electronic form comprises an accessible computer data file (or, in biochemical form, a collection of nucleic acid molecules) that contains the representative nucleotide sequences of genes that are differentially expressed (*e.g.*, overexpressed or underexpressed) as between, for example, i) a cancerous cell and a normal cell; ii) a cancerous cell and a dysplastic cell; iii) a cancerous cell and a cell affected by a disease or condition other than cancer; iv) a metastatic cancerous cell and a normal cell and/or non-metastatic cancerous cell; v) a malignant cancerous cell and a non-malignant cancerous cell (or a normal cell) and/or vi) a dysplastic cell relative to a normal cell. Other combinations and comparisons of cells affected by various diseases or stages of disease will be

readily apparent to the ordinarily skilled artisan. Biochemical embodiments of the library include a collection of nucleic acids that have the sequences of the genes in the library, where the nucleic acids can correspond to the entire gene in the library or to a fragment thereof, as described in greater detail below.

5 The polynucleotide libraries of the subject invention generally comprise sequence information of a plurality of polynucleotide sequences, where at least one of the polynucleotides has a sequence of any of SEQ ID NOS:1-2707. By plurality is meant at least 2, usually at least 3 and can include up to all of SEQ ID NOS:1-2707. The length and number of polynucleotides in the library will vary with the nature of the library, *e.g.*, if the library is an oligonucleotide array, a cDNA
10 array, a computer database of the sequence information, etc.

 Where the library is an electronic library, the nucleic acid sequence information can be present in a variety of media. "Media" refers to a manufacture, other than an isolated nucleic acid molecule, that contains the sequence information of the present invention. Such a manufacture provides the genome sequence or a subset thereof in a form that can be examined by means not
15 directly applicable to the sequence as it exists in a nucleic acid. For example, the nucleotide sequence of the present invention, *e.g.* the nucleic acid sequences of any of the polynucleotides of SEQ ID NOS:1-2707, can be recorded on computer readable media, *e.g.* any medium that can be read and accessed directly by a computer. Such media include, but are not limited to: magnetic storage media, such as a floppy disc, a hard disc storage medium, and a magnetic tape; optical
20 storage media such as CD-ROM; electrical storage media such as RAM and ROM; and hybrids of these categories such as magnetic/optical storage media. One of skill in the art can readily appreciate how any of the presently known computer readable mediums can be used to create a manufacture comprising a recording of the present sequence information. "Recorded" refers to a process for storing information on computer readable medium, using any such methods as known in
25 the art. Any convenient data storage structure can be chosen, based on the means used to access the stored information. A variety of data processor programs and formats can be used for storage, *e.g.* word processing text file, database format, *etc.* In addition to the sequence information, electronic versions of the libraries of the invention can be provided in conjunction or connection with other computer-readable information and/or other types of computer-readable files (*e.g.*, searchable files, executable files, *etc.*, including, but not limited to, for example, search program software, *etc.*).
30

 By providing the nucleotide sequence in computer readable form, the information can be accessed for a variety of purposes. Computer software to access sequence information is publicly available. For example, the gapped BLAST (Altschul *et al. Nucleic Acids Res.* (1997) 25:3389-3402) and BLAZE (Brutlag *et al. Comp. Chem.* (1993) 17:203) search algorithms on a Sybase

system can be used to identify open reading frames (ORFs) within the genome that contain homology to ORFs from other organisms.

As used herein, "a computer-based system" refers to the hardware means, software means, and data storage means used to analyze the nucleotide sequence information of the present invention. The minimum hardware of the computer-based systems of the present invention comprises a central processing unit (CPU), input means, output means, and data storage means. A skilled artisan can readily appreciate that any one of the currently available computer-based system are suitable for use in the present invention. The data storage means can comprise any manufacture comprising a recording of the present sequence information as described above, or a memory access means that can access such a manufacture.

"Search means" refers to one or more programs implemented on the computer-based system, to compare a target sequence or target structural motif, or expression levels of a polynucleotide in a sample, with the stored sequence information. Search means can be used to identify fragments or regions of the genome that match a particular target sequence or target motif. A variety of known algorithms are publicly known and commercially available, *e.g.* MacPattern (EMBL), BLASTN and BLASTX (NCBI). A "target sequence" can be any polynucleotide or amino acid sequence of six or more contiguous nucleotides or two or more amino acids, preferably from about 10 to 100 amino acids or from about 30 to 300 nt. A variety of comparing means can be used to accomplish comparison of sequence information from a sample (*e.g.*, to analyze target sequences, target motifs, or relative expression levels) with the data storage means. A skilled artisan can readily recognize that any one of the publicly available homology search programs can be used as the search means for the computer based systems of the present invention to accomplish comparison of target sequences and motifs. Computer programs to analyze expression levels in a sample and in controls are also known in the art.

A "target structural motif," or "target motif," refers to any rationally selected sequence or combination of sequences in which the sequence(s) are chosen based on a three-dimensional configuration that is formed upon the folding of the target motif, or on consensus sequences of regulatory or active sites. There are a variety of target motifs known in the art. Protein target motifs include, but are not limited to, enzyme active sites and signal sequences. Nucleic acid target motifs include, but are not limited to, hairpin structures, promoter sequences and other expression elements such as binding sites for transcription factors.

A variety of structural formats for the input and output means can be used to input and output the information in the computer-based systems of the present invention. One format for an output means ranks the relative expression levels of different polynucleotides. Such presentation

provides a skilled artisan with a ranking of relative expression levels to determine a gene expression profile. .

As discussed above, the "library" of the invention also encompasses biochemical libraries of the polynucleotides of SEQ ID NOS:1-2707 . *e.g.*, collections of nucleic acids representing the provided polynucleotides. The biochemical libraries can take a variety of forms, *e.g.*, a solution of cDNAs, a pattern of probe nucleic acids stably associated with a surface of a solid support (*i.e.*, an array) and the like. Of particular interest are nucleic acid arrays in which one or more of SEQ ID NOS:1-2707 is represented on the array. By array is meant a an article of manufacture that has at least a substrate with at least two distinct nucleic acid targets on one of its surfaces, where the number of distinct nucleic acids can be considerably higher, typically being at least 10 nt, usually at least 20 nt and often at least 25 nt. A variety of different array formats have been developed and are known to those of skill in the art. The arrays of the subject invention find use in a variety of applications, including gene expression analysis, drug screening, mutation analysis and the like, as disclosed in the above-listed exemplary patent documents.

In addition to the above nucleic acid libraries, analogous libraries of polypeptides are also provided, where the where the polypeptides of the library will represent at least a portion of the polypeptides encoded by SEQ ID NOS:1-2707.

Utilities

Use of Polynucleotide Probes in Mapping, and in Tissue Profiling

Polynucleotide probes, generally comprising at least 12 contiguous nt of a polynucleotide as shown in the Sequence Listing, are used for a variety of purposes, such as chromosome mapping of the polynucleotide and detection of transcription levels. Additional disclosure about preferred regions of the disclosed polynucleotide sequences is found in the Examples. A probe that hybridizes specifically to a polynucleotide disclosed herein should provide a detection signal at least 5-, 10-, or 20-fold higher than the background hybridization provided with other unrelated sequences.

Detection of Expression Levels. Nucleotide probes are used to detect expression of a gene corresponding to the provided polynucleotide. In Northern blots, mRNA is separated electrophoretically and contacted with a probe. A probe is detected as hybridizing to an mRNA species of a particular size. The amount of hybridization is quantitated to determine relative amounts of expression, for example under a particular condition. Probes are used for in situ hybridization to cells to detect expression. Probes can also be used *in vivo* for diagnostic detection of hybridizing sequences. Probes are typically labeled with a radioactive isotope. Other types of detectable labels can be used such as chromophores, fluors, and enzymes. Other examples of nucleotide hybridization assays are described in WO92/02526 and USPN 5,124,246.

Alternatively, the Polymerase Chain Reaction (PCR) is another means for detecting small amounts of target nucleic acids (see, e.g., Mullis *et al.*, *Meth. Enzymol.* (1987) 155:335; USPN 4.683.195; and USPN 4.683.202). Two primer polynucleotides nucleotides that hybridize with the target nucleic acids are used to prime the reaction. The primers can be composed of sequence within or 3' and 5' to the polynucleotides of the Sequence Listing. Alternatively, if the primers are 3' and 5' to these polynucleotides, they need not hybridize to them or the complements. After amplification of the target with a thermostable polymerase, the amplified target nucleic acids can be detected by methods known in the art, e.g., Southern blot. mRNA or cDNA can also be detected by traditional blotting techniques (e.g., Southern blot, Northern blot, etc.) described in Sambrook *et al.*.

"Molecular Cloning: A Laboratory Manual" (New York, Cold Spring Harbor Laboratory, 1989) (e.g., without PCR amplification). In general, mRNA or cDNA generated from mRNA using a polymerase enzyme can be purified and separated using gel electrophoresis, and transferred to a solid support, such as nitrocellulose. The solid support is exposed to a labeled probe, washed to remove any unhybridized probe, and duplexes containing the labeled probe are detected.

Mapping. Polynucleotides of the present invention can be used to identify a chromosome on which the corresponding gene resides. Such mapping can be useful in identifying the function of the polynucleotide-related gene by its proximity to other genes with known function. Function can also be assigned to the polynucleotide-related gene when particular syndromes or diseases map to the same chromosome. For example, use of polynucleotide probes in identification and quantification of nucleic acid sequence aberrations is described in USPN 5.783.387. An exemplary mapping method is fluorescence in situ hybridization (FISH), which facilitates comparative genomic hybridization to allow total genome assessment of changes in relative copy number of DNA sequences (see, e.g., Valdes *et al.*, *Methods in Molecular Biology* (1997) 68:1). Polynucleotides can also be mapped to particular chromosomes using, for example, radiation hybrids or chromosome-specific hybrid panels. See Leach *et al.*, *Advances in Genetics*, (1995) 33:63-99; Walter *et al.*, *Nature Genetics* (1994) 7:22; Walter and Goodfellow, *Trends in Genetics* (1992) 9:352. Panels for radiation hybrid mapping are available from Research Genetics, Inc., Huntsville, Alabama, USA. Databases for markers using various panels are available via the world wide web at <http://F/shgc-www.stanford.edu>; and <http://www-genome.wi.mit.edu/cgi-bin/contig/rhmapper.pl>. The statistical program RHMAP can be used to construct a map based on the data from radiation hybridization with a measure of the relative likelihood of one order versus another. RHMAP is available via the world wide web at <http://www.sph.umich.edu/group/statgen/software>. In addition, commercial programs are available for identifying regions of chromosomes commonly associated with disease, such as cancer.

Tissue Typing or Profiling. Expression of specific mRNA corresponding to the provided polynucleotides can vary in different cell types and can be tissue-specific. This variation of mRNA levels in different cell types can be exploited with nucleic acid probe assays to determine tissue types. For example, PCR, branched DNA probe assays, or blotting techniques utilizing nucleic acid probes substantially identical or complementary to polynucleotides listed in the Sequence Listing can determine the presence or absence of the corresponding cDNA or mRNA.

Tissue typing can be used to identify the developmental organ or tissue source of a metastatic lesion by identifying the expression of a particular marker of that organ or tissue. If a polynucleotide is expressed only in a specific tissue type, and a metastatic lesion is found to express that polynucleotide, then the developmental source of the lesion has been identified. Expression of a particular polynucleotide can be assayed by detection of either the corresponding mRNA or the protein product. As would be readily apparent to any forensic scientist, the sequences disclosed herein are useful in differentiating human tissue from non-human tissue. In particular, these sequences are useful to differentiate human tissue from bird, reptile, and amphibian tissue, for example.

Use of Polymorphisms. A polynucleotide of the invention can be used in forensics, genetic analysis, mapping, and diagnostic applications where the corresponding region of a gene is polymorphic in the human population. Any means for detecting a polymorphism in a gene can be used, including, but not limited to electrophoresis of protein polymorphic variants, differential sensitivity to restriction enzyme cleavage, and hybridization to allele-specific probes.

Antibody Production

Expression products of a polynucleotide of the invention, as well as the corresponding mRNA, cDNA, or complete gene, can be prepared and used for raising antibodies for experimental, diagnostic, and therapeutic purposes. For polynucleotides to which a corresponding gene has not been assigned, this provides an additional method of identifying the corresponding gene. The polynucleotide or related cDNA is expressed as described above, and antibodies are prepared. These antibodies are specific to an epitope on the polypeptide encoded by the polynucleotide, and can precipitate or bind to the corresponding native protein in a cell or tissue preparation or in a cell-free extract of an in vitro expression system.

Methods for production of antibodies that specifically bind a selected antigen are well known in the art. Immunogens for raising antibodies can be prepared by mixing a polypeptide encoded by a polynucleotide of the invention with an adjuvant, and/or by making fusion proteins with larger immunogenic proteins. Polypeptides can also be covalently linked to other larger immunogenic proteins, such as keyhole limpet hemocyanin. Immunogens are typically administered intradermally, subcutaneously, or intramuscularly to experimental animals such as rabbits, sheep,

and mice, to generate antibodies. Monoclonal antibodies can be generated by isolating spleen cells and fusing myeloma cells to form hybridomas. Alternatively, the selected polynucleotide is administered directly, such as by intramuscular injection, and expressed in vivo. The expressed protein generates a variety of protein-specific immune responses, including
5 production of antibodies, comparable to administration of the protein.

Preparations of polyclonal and monoclonal antibodies specific for polypeptides encoded by a selected polynucleotide are made using standard methods known in the art. The antibodies specifically bind to epitopes present in the polypeptides encoded by polynucleotides disclosed in the Sequence Listing. Typically, at least 6, 8, 10, or 12 contiguous amino acids are required to form an
10 epitope. Epitopes that involve non-contiguous amino acids may require a longer polypeptide, e.g., at least 15, 25, or 50 amino acids. Antibodies that specifically bind to human polypeptides encoded by the provided polypeptides should provide a detection signal at least 5-, 10-, or 20-fold higher than a detection signal provided with other proteins when used in Western blots or other immunochemical assays. Preferably, antibodies that specifically bind to polypeptides of the invention do not bind to other
15 proteins in immunochemical assays at detectable levels and can immunoprecipitate the specific polypeptide from solution.

The invention also contemplates naturally occurring antibodies specific for a polypeptide of the invention. For example, serum antibodies to a polypeptide of the invention in a human population can be purified by methods well known in the art, e.g., by passing antiserum over a
20 column to which the corresponding selected polypeptide or fusion protein is bound. The bound antibodies can then be eluted from the column, for example using a buffer with a high salt concentration.

In addition to the antibodies discussed above, the invention also contemplates genetically engineered antibodies, antibody derivatives (e.g., single chain antibodies, antibody fragments (e.g.,
25 Fab, etc.)), according to methods well known in the art.

Polynucleotides or Arrays for Diagnostics

Polynucleotide arrays provide a high throughput technique that can assay a large number of polynucleotide sequences in a sample. This technology can be used as a diagnostic and as a tool to test for differential expression, e.g., to determine function of an encoded protein. Arrays can be
30 created by spotting polynucleotide probes onto a substrate (e.g., glass, nitrocellulose, etc.) in a two-dimensional matrix or array having bound probes. The probes can be bound to the substrate by either covalent bonds or by non-specific interactions, such as hydrophobic interactions. Samples of polynucleotides can be detectably labeled (e.g., using radioactive or fluorescent labels) and then hybridized to the probes. Double stranded polynucleotides, comprising the labeled sample
35 polynucleotides bound to probe polynucleotides, can be detected once the unbound portion of the

sample is washed away. Techniques for constructing arrays and methods of using these arrays are described in EP 799 897; WO 97/29212; WO 97/27317; EP 785 280; WO 97/02357; USPN 5,593,839; USPN 5,578,832; EP 728 520; USPN 5,599,695; EP 721 016; USPN 5,556,752; WO 95/22058; and USPN 5,631,734. Arrays can be used to, for example, examine differential
5 expression of genes and can be used to determine gene function. For example, arrays can be used to detect differential expression of a polynucleotide between a test cell and control cell (e.g., cancer cells and normal cells). For example, high expression of a particular message in a cancer cell, which is not observed in a corresponding normal cell, can indicate a cancer specific gene product. Exemplary uses of arrays are further described in, for example, Pappalarado *et al.*, *Sem. Radiation*
10 *Oncol.* (1998) 8:217; and Ramsay *Nature Biotechnol.* (1998) 16:40.

Differential Expression in Diagnosis

The polynucleotides of the invention can also be used to detect differences in expression levels between two cells, e.g., as a method to identify abnormal or diseased tissue in a human. For polynucleotides corresponding to profiles of protein families, the choice of tissue can be selected
15 according to the putative biological function. In general, the expression of a gene corresponding to a specific polynucleotide is compared between a first tissue that is suspected of being diseased and a second, normal tissue of the human. The tissue suspected of being abnormal or diseased can be derived from a different tissue type of the human, but preferably it is derived from the same tissue type; for example an intestinal polyp or other abnormal growth should be compared with normal
20 intestinal tissue. The normal tissue can be the same tissue as that of the test sample, or any normal tissue of the patient, especially those that express the polynucleotide-related gene of interest (e.g., brain, thymus, testis, heart, prostate, placenta, spleen, small intestine, skeletal muscle, pancreas, and the mucosal lining of the colon). A difference between the polynucleotide-related gene, mRNA, or protein in the two tissues which are compared, for example in molecular weight, amino acid or
25 nucleotide sequence, or relative abundance, indicates a change in the gene, or a gene which regulates it, in the tissue of the human that was suspected of being diseased. Examples of detection of differential expression and its use in diagnosis of cancer are described in USPNs 5,688,641 and 5,677,125.

A genetic predisposition to disease in a human can also be detected by comparing
30 expression levels of an mRNA or protein corresponding to a polynucleotide of the invention in a fetal tissue with levels associated in normal fetal tissue. Fetal tissues that are used for this purpose include, but are not limited to, amniotic fluid, chorionic villi, blood, and the blastomere of an in vitro-fertilized embryo. The comparable normal polynucleotide-related gene is obtained from any tissue. The mRNA or protein is obtained from a normal tissue of a human in which the
35 polynucleotide-related gene is expressed. Differences such as alterations in the nucleotide sequence

or size of the same product of the fetal polynucleotide-related gene or mRNA, or alterations in the molecular weight, amino acid sequence, or relative abundance of fetal protein, can indicate a germline mutation in the polynucleotide-related gene of the fetus, which indicates a genetic predisposition to disease. In general, diagnostic, prognostic, and other methods of the invention based on differential expression involve detection of a level or amount of a gene product, particularly a differentially expressed gene product, in a test sample obtained from a patient suspected of having or being susceptible to a disease (*e.g.*, breast cancer, lung cancer, colon cancer and/or metastatic forms thereof), and comparing the detected levels to those levels found in normal cells (*e.g.*, cells substantially unaffected by cancer) and/or other control cells (*e.g.*, to differentiate a cancerous cell from a cell affected by dysplasia). Furthermore, the severity of the disease can be assessed by comparing the detected levels of a differentially expressed gene product with those levels detected in samples representing the levels of differentially gene product associated with varying degrees of severity of disease. It should be noted that use of the term "diagnostic" herein is not necessarily meant to exclude "prognostic" or "prognosis," but rather is used as a matter of convenience.

The term "differentially expressed gene" is generally intended to encompass a polynucleotide that can, for example, include an open reading frame encoding a gene product (*e.g.*, a polypeptide), and/or introns of such genes and adjacent 5' and 3' non-coding nucleotide sequences involved in the regulation of expression, up to about 20 kb beyond the coding region, but possibly further in either direction. The gene can be introduced into an appropriate vector for extrachromosomal maintenance or for integration into a host genome. In general, a difference in expression level associated with a decrease in expression level of at least about 25%, usually at least about 50% to 75%, more usually at least about 90% or more is indicative of a differentially expressed gene of interest, *i.e.*, a gene that is underexpressed or down-regulated in the test sample relative to a control sample. Furthermore, a difference in expression level associated with an increase in expression of at least about 25%, usually at least about 50% to 75%, more usually at least about 90% and can be at least about 1 1/2-fold, usually at least about 2-fold to about 10-fold, and can be about 100-fold to about 1,000-fold increase relative to a control sample is indicative of a differentially expressed gene of interest, *i.e.*, an overexpressed or up-regulated gene.

"Differentially expressed polynucleotide" as used herein means a nucleic acid molecule (RNA or DNA) comprising a sequence that represents a differentially expressed gene, *e.g.*, the differentially expressed polynucleotide comprises a sequence (*e.g.*, an open reading frame encoding a gene product) that uniquely identifies a differentially expressed gene so that detection of the differentially expressed polynucleotide in a sample is correlated with the presence of a differentially expressed gene in a sample. "Differentially expressed polynucleotides" is also meant to encompass

fragments of the disclosed polynucleotides, *e.g.*, fragments retaining biological activity, as well as nucleic acids homologous, substantially similar, or substantially identical (*e.g.*, having about 90% sequence identity) to the disclosed polynucleotides.

"Diagnosis" as used herein generally includes determination of a subject's susceptibility to a disease or disorder, determination as to whether a subject is presently affected by a disease or disorder, as well as to the prognosis of a subject affected by a disease or disorder (*e.g.*, identification of pre-metastatic or metastatic cancerous states, stages of cancer, or responsiveness of cancer to therapy). The present invention particularly encompasses diagnosis of subjects in the context of breast cancer (*e.g.*, carcinoma in situ (*e.g.*, ductal carcinoma in situ), estrogen receptor (ER)-positive breast cancer, ER-negative breast cancer, or other forms and/or stages of breast cancer), lung cancer (*e.g.*, small cell carcinoma, non-small cell carcinoma, mesothelioma, and other forms and/or stages of lung cancer), and colon cancer (*e.g.*, adenomatous polyp, colorectal carcinoma, and other forms and/or stages of colon cancer).

"Sample" or "biological sample" as used throughout here are generally meant to refer to samples of biological fluids or tissues, particularly samples obtained from tissues, especially from cells of the type associated with the disease for which the diagnostic application is designed (*e.g.*, ductal adenocarcinoma), and the like. "Samples" is also meant to encompass derivatives and fractions of such samples (*e.g.*, cell lysates). Where the sample is solid tissue, the cells of the tissue can be dissociated or tissue sections can be analyzed.

Methods of the subject invention useful in diagnosis or prognosis typically involve comparison of the abundance of a selected differentially expressed gene product in a sample of interest with that of a control to determine any relative differences in the expression of the gene product, where the difference can be measured qualitatively and/or quantitatively. Quantitation can be accomplished, for example, by comparing the level of expression product detected in the sample with the amounts of product present in a standard curve. A comparison can be made visually: by using a technique such as densitometry, with or without computerized assistance; by preparing a representative library of cDNA clones of mRNA isolated from a test sample, sequencing the clones in the library to determine that number of cDNA clones corresponding to the same gene product, and analyzing the number of clones corresponding to that same gene product relative to the number of clones of the same gene product in a control sample; or by using an array to detect relative levels of hybridization to a selected sequence or set of sequences, and comparing the hybridization pattern to that of a control. The differences in expression are then correlated with the presence or absence of an abnormal expression pattern. A variety of different methods for determining the nucleic acid abundance in a sample are known to those of skill in the art (see, *e.g.*, WO 97/27317). In general, diagnostic assays of the invention involve detection of a gene product of a the polynucleotide

sequence (*e.g.*, mRNA or polypeptide) that corresponds to a sequence of SEQ ID NOS:1-2707. The patient from whom the sample is obtained can be apparently healthy, susceptible to disease (*e.g.*, as determined by family history or exposure to certain environmental factors), or can already be identified as having a condition in which altered expression of a gene product of the invention is implicated.

Diagnosis can be determined based on detected gene product expression levels of a gene product encoded by at least one, preferably at least two or more, at least 3 or more, or at least 4 or more of the polynucleotides having a sequence set forth in SEQ ID NOS:1-2707, and can involve detection of expression of genes corresponding to all of SEQ ID NOS:1-2707 and/or additional sequences that can serve as additional diagnostic markers and/or reference sequences. Where the diagnostic method is designed to detect the presence or susceptibility of a patient to cancer, the assay preferably involves detection of a gene product encoded by a gene corresponding to a polynucleotide that is differentially expressed in cancer. Examples of such differentially expressed polynucleotides are described in the Examples below. Given the provided polynucleotides and information regarding their relative expression levels provided herein, assays using such polynucleotides and detection of their expression levels in diagnosis and prognosis will be readily apparent to the ordinarily skilled artisan.

Any of a variety of detectable labels can be used in connection with the various embodiments of the diagnostic methods of the invention. Suitable detectable labels include fluorochromes, (*e.g.* fluorescein isothiocyanate (FITC), rhodamine, Texas Red, phycoerythrin, allophycocyanin, 6-carboxyfluorescein (6-FAM), 2',7'-dimethoxy-4',5'-dichloro-6-carboxyfluorescein, 6-carboxy-X-rhodamine (ROX), 6-carboxy-2',4',7',4,7-hexachlorofluorescein (HEX), 5-carboxyfluorescein (5-FAM) or N,N,N',N'-tetramethyl-6-carboxyrhodamine (TAMRA)), radioactive labels, (*e.g.* ^{32}P , ^{35}S , ^3H , *etc.*), and the like. The detectable label can involve a two stage systems (*e.g.*, biotin-avidin, hapten-anti-hapten antibody, *etc.*)

Reagents specific for the polynucleotides and polypeptides of the invention, such as antibodies and nucleotide probes, can be supplied in a kit for detecting the presence of an expression product in a biological sample. The kit can also contain buffers or labeling components, as well as instructions for using the reagents to detect and quantify expression products in the biological sample. Exemplary embodiments of the diagnostic methods of the invention are described below in more detail.

Polypeptide detection in diagnosis. In one embodiment, the test sample is assayed for the level of a differentially expressed polypeptide. Diagnosis can be accomplished using any of a number of methods to determine the absence or presence or altered amounts of the differentially expressed polypeptide in the test sample. For example, detection can utilize staining of cells or

histological sections with labeled antibodies, performed in accordance with conventional methods. Cells can be permeabilized to stain cytoplasmic molecules. In general, antibodies that specifically bind a differentially expressed polypeptide of the invention are added to a sample, and incubated for a period of time sufficient to allow binding to the epitope, usually at least about 10 minutes. The antibody can be detectably labeled for direct detection (*e.g.*, using radioisotopes, enzymes, fluorescers, chemilumescers, and the like), or can be used in conjunction with a second stage antibody or reagent to detect binding (*e.g.*, biotin with horseradish peroxidase-conjugated avidin, a secondary antibody conjugated to a fluorescent compound, *e.g.* fluorescein, rhodamine, Texas red, *etc.*). The absence or presence of antibody binding can be determined by various methods, including flow cytometry of dissociated cells, microscopy, radiography, scintillation counting, *etc.* Any suitable alternative methods can of qualitative or quantitative detection of levels or amounts of differentially expressed polypeptide can be used, for example ELISA, western blot, immunoprecipitation, radioimmunoassay, *etc.*

mRNA detection. The diagnostic methods of the invention can also or alternatively involve detection of mRNA encoded by a gene corresponding to a differentially expressed polynucleotides of the invention. Any suitable qualitative or quantitative methods known in the art for detecting specific mRNAs can be used. mRNA can be detected by, for example, *in situ* hybridization in tissue sections, by reverse transcriptase-PCR, or in Northern blots containing poly A+ mRNA. One of skill in the art can readily use these methods to determine differences in the size or amount of mRNA transcripts between two samples. mRNA expression levels in a sample can also be determined by generation of a library of expressed sequence tags (ESTs) from the sample, where the EST library is representative of sequences present in the sample (Adams, et al., (1991) *Science* 252:1651). Enumeration of the relative representation of ESTs within the library can be used to approximate the relative representation of the gene transcript within the starting sample. The results of EST analysis of a test sample can then be compared to EST analysis of a reference sample to determine the relative expression levels of a selected polynucleotide, particularly a polynucleotide corresponding to one or more of the differentially expressed genes described herein. Alternatively, gene expression in a test sample can be performed using serial analysis of gene expression (SAGE) methodology (*e.g.*, Velculescu et al., *Science* (1995) 270:484) or differential display (DD) methodology (*see, e.g.*, U.S. 5,776,683; and U.S. 5,807,680).

Alternatively, gene expression can be analyzed using hybridization analysis. Oligonucleotides or cDNA can be used to selectively identify or capture DNA or RNA of specific sequence composition, and the amount of RNA or cDNA hybridized to a known capture sequence determined qualitatively or quantitatively, to provide information about the relative representation of a particular message within the pool of cellular messages in a sample. Hybridization analysis can be

designed to allow for concurrent screening of the relative expression of hundreds to thousands of genes by using, for example, array-based technologies having high density formats, including filters, microscope slides, or microchips, or solution-based technologies that use spectroscopic analysis (e.g., mass spectrometry). One exemplary use of arrays in the diagnostic methods of the invention is described below in more detail.

Use of a single gene in diagnostic applications. The diagnostic methods of the invention can focus on the expression of a single differentially expressed gene. For example, the diagnostic method can involve detecting a differentially expressed gene, or a polymorphism of such a gene (e.g., a polymorphism in an coding region or control region), that is associated with disease.

Disease-associated polymorphisms can include deletion or truncation of the gene, mutations that alter expression level and/or affect activity of the encoded protein, *etc.*

A number of methods are available for analyzing nucleic acids for the presence of a specific sequence, e.g. a disease associated polymorphism. Where large amounts of DNA are available, genomic DNA is used directly. Alternatively, the region of interest is cloned into a suitable vector and grown in sufficient quantity for analysis. Cells that express a differentially expressed gene can be used as a source of mRNA, which can be assayed directly or reverse transcribed into cDNA for analysis. The nucleic acid can be amplified by conventional techniques, such as the polymerase chain reaction (PCR), to provide sufficient amounts for analysis, and a detectable label can be included in the amplification reaction (e.g., using a detectably labeled primer or detectably labeled oligonucleotides) to facilitate detection. Alternatively, various methods are also known in the art that utilize oligonucleotide ligation as a means of detecting polymorphisms, see e.g., Riley *et al.*, *Nucl. Acids Res.* (1990) 18:2887; and Delahunty *et al.*, *Am. J. Hum. Genet.* (1996) 58:1239.

The amplified or cloned sample nucleic acid can be analyzed by one of a number of methods known in the art. The nucleic acid can be sequenced by dideoxy or other methods, and the sequence of bases compared to a selected sequence, e.g., to a wild-type sequence. Hybridization with the polymorphic or variant sequence can also be used to determine its presence in a sample (e.g., by Southern blot, dot blot, *etc.*). The hybridization pattern of a polymorphic or variant sequence and a control sequence to an array of oligonucleotide probes immobilized on a solid support, as described in US 5,445,934, or in WO 95/35505, can also be used as a means of identifying polymorphic or variant sequences associated with disease. Single strand conformational polymorphism (SSCP) analysis, denaturing gradient gel electrophoresis (DGGE), and heteroduplex analysis in gel matrices are used to detect conformational changes created by DNA sequence variation as alterations in electrophoretic mobility. Alternatively, where a polymorphism creates or destroys a recognition site for a restriction endonuclease, the sample is digested with that endonuclease, and the products size

fractionated to determine whether the fragment was digested. Fractionation is performed by gel or capillary electrophoresis, particularly acrylamide or agarose gels.

Screening for mutations in a gene can be based on the functional or antigenic characteristics of the protein. Protein truncation assays are useful in detecting deletions that can affect the biological activity of the protein. Various immunoassays designed to detect polymorphisms in proteins can be used in screening. Where many diverse genetic mutations lead to a particular disease phenotype, functional protein assays have proven to be effective screening tools. The activity of the encoded protein can be determined by comparison with the wild-type protein.

Pattern matching in diagnosis using arrays. In another embodiment, the diagnostic and/or prognostic methods of the invention involve detection of expression of a selected set of genes in a test sample to produce a test expression pattern (TEP). The TEP is compared to a reference expression pattern (REP), which is generated by detection of expression of the selected set of genes in a reference sample (*e.g.*, a positive or negative control sample). The selected set of genes includes at least one of the genes of the invention, which genes correspond to the polynucleotide sequences of SEQ ID NOS:1-2707. Of particular interest is a selected set of genes that includes gene differentially expressed in the disease for which the test sample is to be screened.

"Reference sequences" or "reference polynucleotides" as used herein in the context of differential gene expression analysis and diagnosis/prognosis refers to a selected set of polynucleotides, which selected set includes at least one or more of the differentially expressed polynucleotides described herein. A plurality of reference sequences, preferably comprising positive and negative control sequences, can be included as reference sequences. Additional suitable reference sequences are found in GenBank, Unigene, and other nucleotide sequence databases (including, *e.g.*, expressed sequence tag (EST), partial, and full-length sequences).

"Reference array" means an array having reference sequences for use in hybridization with a sample, where the reference sequences include all, at least one of, or any subset of the differentially expressed polynucleotides described herein. Usually such an array will include at least 3 different reference sequences, and can include any one or all of the provided differentially expressed sequences. Arrays of interest can further comprise sequences, including polymorphisms, of other genetic sequences, particularly other sequences of interest for screening for a disease or disorder (*e.g.*, cancer, dysplasia, or other related or unrelated diseases, disorders, or conditions). The oligonucleotide sequence on the array will usually be at least about 12 nt in length, and can be of about the length of the provided sequences, or can extend into the flanking regions to generate fragments of 100 nt to 200 nt in length or more. Reference arrays can be produced according to any suitable methods known in the art. For example, methods of producing large arrays of oligonucleotides are described in U.S. 5,134,854, and U.S. 5,445,934 using light-directed synthesis

techniques. Using a computer controlled system, a heterogeneous array of monomers is converted, through simultaneous coupling at a number of reaction sites, into a heterogeneous array of polymers. Alternatively, microarrays are generated by deposition of pre-synthesized oligonucleotides onto a solid substrate, for example as described in PCT published application no. WO 95/35505.

5 A "reference expression pattern" or "REP" as used herein refers to the relative levels of expression of a selected set of genes, particularly of differentially expressed genes, that is associated with a selected cell type, *e.g.*, a normal cell, a cancerous cell, a cell exposed to an environmental stimulus, and the like. A "test expression pattern" or "TEP" refers to relative levels of expression of a selected set of genes, particularly of differentially expressed genes, in a test sample (*e.g.*, a cell of
10 unknown or suspected disease state, from which mRNA is isolated).

 REPs can be generated in a variety of ways according to methods well known in the art. For example, REPs can be generated by hybridizing a control sample to an array having a selected set of polynucleotides (particularly a selected set of differentially expressed polynucleotides), acquiring the hybridization data from the array, and storing the data in a format that allows for ready
15 comparison of the REP with a TEP. Alternatively, all expressed sequences in a control sample can be isolated and sequenced, *e.g.*, by isolating mRNA from a control sample, converting the mRNA into cDNA, and sequencing the cDNA. The resulting sequence information roughly or precisely reflects the identity and relative number of expressed sequences in the sample. The sequence information can then be stored in a format (*e.g.*, a computer-readable format) that allows for ready
20 comparison of the REP with a TEP. The REP can be normalized prior to or after data storage, and/or can be processed to selectively remove sequences of expressed genes that are of less interest or that might complicate analysis (*e.g.*, some or all of the sequences associated with housekeeping genes can be eliminated from REP data).

 TEPs can be generated in a manner similar to REPs, *e.g.*, by hybridizing a test sample to an
25 array having a selected set of polynucleotides, particularly a selected set of differentially expressed polynucleotides, acquiring the hybridization data from the array, and storing the data in a format that allows for ready comparison of the TEP with a REP. The REP and TEP to be used in a comparison can be generated simultaneously, or the TEP can be compared to previously generated and stored REPs.

30 In one embodiment of the invention, comparison of a TEP with a REP involves hybridizing a test sample with a reference array, where the reference array has one or more reference sequences for use in hybridization with a sample. The reference sequences include all, at least one of, or any subset of the differentially expressed polynucleotides described herein. Hybridization data for the test sample is acquired, the data normalized, and the produced TEP compared with a REP generated
35 using an array having the same or similar selected set of differentially expressed polynucleotides.

Probes that correspond to sequences differentially expressed between the two samples will show decreased or increased hybridization efficiency for one of the samples relative to the other.

Methods for collection of data from hybridization of samples with a reference arrays are well known in the art. For example, the polynucleotides of the reference and test samples can be
5 generated using a detectable fluorescent label, and hybridization of the polynucleotides in the samples detected by scanning the microarrays for the presence of the detectable label using, for example, a microscope and light source for directing light at a substrate. A photon counter detects fluorescence from the substrate, while an x-y translation stage varies the location of the substrate. A confocal detection device that can be used in the subject methods is described in USPN 5,631,734.
10 A scanning laser microscope is described in Shalon et al., *Genome Res.* (1996) 6:639. A scan, using the appropriate excitation line, is performed for each fluorophore used. The digital images generated from the scan are then combined for subsequent analysis. For any particular array element, the ratio of the fluorescent signal from one sample (e.g., a test sample) is compared to the fluorescent signal from another sample (e.g., a reference sample), and the relative signal intensity
15 determined.

Methods for analyzing the data collected from hybridization to arrays are well known in the art. For example, where detection of hybridization involves a fluorescent label, data analysis can include the steps of determining fluorescent intensity as a function of substrate position from the data collected, removing outliers, i.e. data deviating from a predetermined statistical distribution,
20 and calculating the relative binding affinity of the targets from the remaining data. The resulting data can be displayed as an image with the intensity in each region varying according to the binding affinity between targets and probes.

In general, the test sample is classified as having a gene expression profile corresponding to that associated with a disease or non-disease state by comparing the TEP generated from the test
25 sample to one or more REPs generated from reference samples (e.g., from samples associated with cancer or specific stages of cancer, dysplasia, samples affected by a disease other than cancer, normal samples, etc.). The criteria for a match or a substantial match between a TEP and a REP include expression of the same or substantially the same set of reference genes, as well as expression of these reference genes at substantially the same levels (e.g., no significant difference between the
30 samples for a signal associated with a selected reference sequence after normalization of the samples, or at least no greater than about 25% to about 40% difference in signal strength for a given reference sequence. In general, a pattern match between a TEP and a REP includes a match in expression, preferably a match in qualitative or quantitative expression level, of at least one of, all or any subset of the differentially expressed genes of the invention.

Pattern matching can be performed manually, or can be performed using a computer program. Methods for preparation of substrate matrices (e.g., arrays), design of oligonucleotides for use with such matrices, labeling of probes, hybridization conditions, scanning of hybridized matrices, and analysis of patterns generated, including comparison analysis, are described in, for example, U.S. 5,800,992.

Diagnosis, Prognosis and Management of Cancer

The polynucleotides of the invention and their gene products are of particular interest as genetic or biochemical markers (e.g., in blood or tissues) that will detect the earliest changes along the carcinogenesis pathway and/or to monitor the efficacy of various therapies and preventive interventions. For example, the level of expression of certain polynucleotides can be indicative of a poorer prognosis, and therefore warrant more aggressive chemo- or radio-therapy for a patient or vice versa. The correlation of novel surrogate tumor specific features with response to treatment and outcome in patients can define prognostic indicators that allow the design of tailored therapy based on the molecular profile of the tumor. These therapies include antibody targeting and gene therapy. Determining expression of certain polynucleotides and comparison of a patient's profile with known expression in normal tissue and variants of the disease allows a determination of the best possible treatment for a patient, both in terms of specificity of treatment and in terms of comfort level of the patient. Surrogate tumor markers, such as polynucleotide expression, can also be used to better classify, and thus diagnose and treat, different forms and disease states of cancer. Two classifications widely used in oncology that can benefit from identification of the expression levels of the polynucleotides of the invention are staging of the cancerous disorder, and grading the nature of the cancerous tissue.

The polynucleotides of the invention can be useful to monitor patients having or susceptible to cancer to detect potentially malignant events at a molecular level before they are detectable at a gross morphological level. Furthermore, a polynucleotide of the invention identified as important for one type of cancer can also have implications for development or risk of development of other types of cancer, e.g., where a polynucleotide is differentially expressed across various cancer types. Thus, for example, expression of a polynucleotide that has clinical implications for metastatic colon cancer can also have clinical implications for stomach cancer or endometrial cancer.

Staging. Staging is a process used by physicians to describe how advanced the cancerous state is in a patient. Staging assists the physician in determining a prognosis, planning treatment and evaluating the results of such treatment. Staging systems vary with the types of cancer, but generally involve the following "TNM" system: the type of tumor, indicated by T; whether the cancer has metastasized to nearby lymph nodes, indicated by N; and whether the cancer has metastasized to more distant parts of the body, indicated by M. Generally, if a cancer is only detectable in the area

of the primary lesion without having spread to any lymph nodes it is called Stage I. If it has spread only to the closest lymph nodes, it is called Stage II. In Stage III, the cancer has generally spread to the lymph nodes in near proximity to the site of the primary lesion. Cancers that have spread to a distant part of the body, such as the liver, bone, brain or other site, are Stage IV, the most advanced stage.

The polynucleotides of the invention can facilitate fine-tuning of the staging process by identifying markers for the aggressivity of a cancer, e.g. the metastatic potential, as well as the presence in different areas of the body. Thus, a Stage II cancer with a polynucleotide signifying a high metastatic potential cancer can be used to change a borderline Stage II tumor to a Stage III tumor, justifying more aggressive therapy. Conversely, the presence of a polynucleotide signifying a lower metastatic potential allows more conservative staging of a tumor.

Grading of cancers. Grade is a term used to describe how closely a tumor resembles normal tissue of its same type. The microscopic appearance of a tumor is used to identify tumor grade based on parameters such as cell morphology, cellular organization, and other markers of differentiation.

As a general rule, the grade of a tumor corresponds to its rate of growth or aggressiveness, with undifferentiated or high-grade tumors being more aggressive than well differentiated or low-grade tumors. The following guidelines are generally used for grading tumors: 1) GX Grade cannot be assessed; 2) G1 Well differentiated; G2 Moderately well differentiated; 3) G3 Poorly differentiated; 4) G4 Undifferentiated. The polynucleotides of the invention can be especially valuable in determining the grade of the tumor, as they not only can aid in determining the differentiation status of the cells of a tumor, they can also identify factors other than differentiation that are valuable in determining the aggressiveness of a tumor, such as metastatic potential.

Detection of lung cancer. The polynucleotides of the invention can be used to detect lung cancer in a subject. Although there are more than a dozen different kinds of lung cancer, the two main types of lung cancer are small cell and nonsmall cell, which encompass about 90% of all lung cancer cases. Small cell carcinoma (also called oat cell carcinoma) usually starts in one of the larger bronchial tubes, grows fairly rapidly, and is likely to be large by the time of diagnosis. Nonsmall cell lung cancer (NSCLC) is made up of three general subtypes of lung cancer. Epidermoid carcinoma (also called squamous cell carcinoma) usually starts in one of the larger bronchial tubes and grows relatively slowly. The size of these tumors can range from very small to quite large. Adenocarcinoma starts growing near the outside surface of the lung and can vary in both size and growth rate. Some slowly growing adenocarcinomas are described as alveolar cell cancer. Large cell carcinoma starts near the surface of the lung, grows rapidly, and the growth is usually fairly large when diagnosed. Other less common forms of lung cancer are carcinoid, cylindroma, mucoepidermoid, and malignant mesothelioma.

The polynucleotides of the invention, e.g., polynucleotides differentially expressed in normal cells versus cancerous lung cells (e.g., tumor cells of high or low metastatic potential) or between types of cancerous lung cells (e.g., high metastatic versus low metastatic), can be used to distinguish types of lung cancer as well as identifying traits specific to a certain patient's cancer and selecting an appropriate therapy. For example, if the patient's biopsy expresses a polynucleotide that is associated with a low metastatic potential, it may justify leaving a larger portion of the patient's lung in surgery to remove the lesion. Alternatively, a smaller lesion with expression of a polynucleotide that is associated with high metastatic potential may justify a more radical removal of lung tissue and/or the surrounding lymph nodes, even if no metastasis can be identified through pathological examination.

Detection of breast cancer. The majority of breast cancers are adenocarcinomas subtypes, which can be summarized as follows: 1) ductal carcinoma in situ (DCIS), including comedocarcinoma; 2) infiltrating (or invasive) ductal carcinoma (IDC); 3) lobular carcinoma in situ (LCIS); 4) infiltrating (or invasive) lobular carcinoma (ILC); 5) inflammatory breast cancer; 6) medullary carcinoma; 7) mucinous carcinoma; 8) Paget's disease of the nipple; 9) Phyllodes tumor; and 10) tubular carcinoma;

The expression of polynucleotides of the invention can be used in the diagnosis and management of breast cancer, as well as to distinguish between types of breast cancer. Detection of breast cancer can be determined using expression levels of any of the appropriate polynucleotides of the invention, either alone or in combination. Determination of the aggressive nature and/or the metastatic potential of a breast cancer can also be determined by comparing levels of one or more polynucleotides of the invention and comparing levels of another sequence known to vary in cancerous tissue, e.g. ER expression. In addition, development of breast cancer can be detected by examining the ratio of expression of a differentially expressed polynucleotide to the levels of steroid hormones (e.g., testosterone or estrogen) or to other hormones (e.g., growth hormone, insulin). Thus expression of specific marker polynucleotides can be used to discriminate between normal and cancerous breast tissue, to discriminate between breast cancers with different cells of origin, to discriminate between breast cancers with different potential metastatic rates, etc.

Detection of colon cancer. The polynucleotides of the invention exhibiting the appropriate expression pattern can be used to detect colon cancer in a subject. Colorectal cancer is one of the most common neoplasms in humans and perhaps the most frequent form of hereditary neoplasia. Prevention and early detection are key factors in controlling and curing colorectal cancer. Colorectal cancer begins as polyps, which are small, benign growths of cells that form on the inner lining of the colon. Over a period of several years, some of these polyps accumulate additional mutations and become cancerous. Multiple familial colorectal cancer disorders have been identified,

which are summarized as follows: 1) Familial adenomatous polyposis (FAP); 2) Gardner's syndrome; 3) Hereditary nonpolyposis colon cancer (HNPCC); and 4) Familial colorectal cancer in Ashkenazi Jews. The expression of appropriate polynucleotides of the invention can be used in the diagnosis, prognosis and management of colorectal cancer. Detection of colon cancer can be determined using expression levels of any of these sequences alone or in combination with the levels of expression. Determination of the aggressive nature and/or the metastatic potential of a colon cancer can be determined by comparing levels of one or more polynucleotides of the invention and comparing total levels of another sequence known to vary in cancerous tissue, *e.g.*, expression of p53, DCC ras, for FAP (see, *e.g.*, Fearon ER, *et al.*, *Cell* (1990) 61(5):759; Hamilton SR *et al.*, *Cancer* (1993) 72:957; Bodmer W, *et al.*, *Nat Genet.* (1994) 4(3):217; Fearon ER, *Ann N Y Acad Sci.* (1995) 768:101). For example, development of colon cancer can be detected by examining the ratio of any of the polynucleotides of the invention to the levels of oncogenes (*e.g.* ras) or tumor suppressor genes (*e.g.* FAP or p53). Thus expression of specific marker polynucleotides can be used to discriminate between normal and cancerous colon tissue, to discriminate between colon cancers with different cells of origin, to discriminate between colon cancers with different potential metastatic rates, etc.

Use of Polynucleotides to Screen for Peptide Analogs and Antagonists

Polypeptides encoded by the instant polynucleotides and corresponding full length genes can be used to screen peptide libraries to identify binding partners, such as receptors, from among the encoded polypeptides. Peptide libraries can be synthesized according to methods known in the art (see, *e.g.*, USPN 5,010,175, and WO 91/17823). Agonists or antagonists of the polypeptides if the invention can be screened using any available method known in the art, such as signal transduction, antibody binding, receptor binding, mitogenic assays, chemotaxis assays, etc. The assay conditions ideally should resemble the conditions under which the native activity is exhibited *in vivo*, that is, under physiologic pH, temperature, and ionic strength. Suitable agonists or antagonists will exhibit strong inhibition or enhancement of the native activity at concentrations that do not cause toxic side effects in the subject. Agonists or antagonists that compete for binding to the native polypeptide can require concentrations equal to or greater than the native concentration, while inhibitors capable of binding irreversibly to the polypeptide can be added in concentrations on the order of the native concentration.

Such screening and experimentation can lead to identification of a novel polypeptide binding partner, such as a receptor, encoded by a gene or a cDNA corresponding to a polynucleotide of the invention, and at least one peptide agonist or antagonist of the novel binding partner. Such agonists and antagonists can be used to modulate, enhance, or inhibit receptor function in cells to which the receptor is native, or in cells that possess the receptor as a result of genetic engineering.

Further, if the novel receptor shares biologically important characteristics with a known receptor, information about agonist/antagonist binding can facilitate development of improved agonists/antagonists of the known receptor.

Pharmaceutical Compositions and Therapeutic Uses

5 Pharmaceutical compositions of the invention can comprise polypeptides, antibodies, or polynucleotides (including antisense nucleotides and ribozymes) of the claimed invention in a therapeutically effective amount. The term "therapeutically effective amount" as used herein refers to an amount of a therapeutic agent to treat, ameliorate, or prevent a desired disease or condition, or to exhibit a detectable therapeutic or preventative effect. The effect can be detected by, for example, 10 chemical markers or antigen levels. Therapeutic effects also include reduction in physical symptoms, such as decreased body temperature. The precise effective amount for a subject will depend upon the subject's size and health, the nature and extent of the condition, and the therapeutics or combination of therapeutics selected for administration. Thus, it is not useful to specify an exact effective amount in advance. However, the effective amount for a given situation is determined by 15 routine experimentation and is within the judgment of the clinician. For purposes of the present invention, an effective dose will generally be from about 0.01 mg/kg to 50 mg/kg or 0.05 mg/kg to about 10 mg/kg of the DNA constructs in the individual to which it is administered.

A pharmaceutical composition can also contain a pharmaceutically acceptable carrier. The term "pharmaceutically acceptable carrier" refers to a carrier for administration of a therapeutic 20 agent, such as antibodies or a polypeptide, genes, and other therapeutic agents. The term refers to any pharmaceutical carrier that does not itself induce the production of antibodies harmful to the individual receiving the composition, and which can be administered without undue toxicity. Suitable carriers can be large, slowly metabolized macromolecules such as proteins, polysaccharides, polylactic acids, polyglycolic acids, polymeric amino acids, amino acid 25 copolymers, and inactive virus particles. Such carriers are well known to those of ordinary skill in the art. Pharmaceutically acceptable carriers in therapeutic compositions can include liquids such as water, saline, glycerol and ethanol. Auxiliary substances, such as wetting or emulsifying agents, pH buffering substances, and the like, can also be present in such vehicles. Typically, the therapeutic compositions are prepared as injectables, either as liquid solutions or suspensions; solid forms 30 suitable for solution in, or suspension in, liquid vehicles prior to injection can also be prepared. Liposomes are included within the definition of a pharmaceutically acceptable carrier. Pharmaceutically acceptable salts can also be present in the pharmaceutical composition, e.g., mineral acid salts such as hydrochlorides, hydrobromides, phosphates, sulfates, and the like; and the salts of organic acids such as acetates, propionates, malonates, benzoates, and the like. A thorough

discussion of pharmaceutically acceptable excipients is available in *Remington's Pharmaceutical Sciences* (Mack Pub. Co., N.J. 1991).

Delivery Methods. Once formulated, the compositions of the invention can be (1) administered directly to the subject (*e.g.*, as polynucleotide or polypeptides); or (2) delivered *ex vivo*, to cells derived from the subject (*e.g.*, as in *ex vivo* gene therapy). Direct delivery of the compositions will generally be accomplished by parenteral injection, *e.g.*, subcutaneously, intraperitoneally, intravenously or intramuscularly, intratumoral or to the interstitial space of a tissue. Other modes of administration include oral and pulmonary administration, suppositories, and transdermal applications, needles, and gene guns or hyposprays. Dosage treatment can be a single dose schedule or a multiple dose schedule.

Methods for the *ex vivo* delivery and reimplantation of transformed cells into a subject are known in the art and described in *e.g.*, International Publication No. WO 93/14778. Examples of cells useful in *ex vivo* applications include, for example, stem cells, particularly hematopoietic, lymph cells, macrophages, dendritic cells, or tumor cells. Generally, delivery of nucleic acids for both *ex vivo* and *in vitro* applications can be accomplished by, for example, dextran-mediated transfection, calcium phosphate precipitation, polybrene mediated transfection, protoplast fusion, electroporation, encapsulation of the polynucleotide(s) in liposomes, and direct microinjection of the DNA into nuclei, all well known in the art.

Once a gene corresponding to a polynucleotide of the invention has been found to correlate with a proliferative disorder, such as neoplasia, dysplasia, and hyperplasia, the disorder can be amenable to treatment by administration of a therapeutic agent based on the provided polynucleotide, corresponding polypeptide or other corresponding molecule (*e.g.*, antisense, ribozyme, etc.).

The dose and the means of administration of the inventive pharmaceutical compositions are determined based on the specific qualities of the therapeutic composition, the condition, age, and weight of the patient, the progression of the disease, and other relevant factors. For example, administration of polynucleotide therapeutic compositions agents of the invention includes local or systemic administration, including injection, oral administration, particle gun or catheterized administration, and topical administration. Preferably, the therapeutic polynucleotide composition contains an expression construct comprising a promoter operably linked to a polynucleotide of at least 12, 22, 25, 30, or 35 contiguous nt of the polynucleotide disclosed herein. Various methods can be used to administer the therapeutic composition directly to a specific site in the body. For example, a small metastatic lesion is located and the therapeutic composition injected several times in several different locations within the body of tumor. Alternatively, arteries which serve a tumor are identified, and the therapeutic composition injected into such an artery, in order to deliver the

composition directly into the tumor. A tumor that has a necrotic center is aspirated and the composition injected directly into the now empty center of the tumor. The antisense composition is directly administered to the surface of the tumor, for example, by topical application of the composition. X-ray imaging is used to assist in certain of the above delivery methods.

5 Receptor-mediated targeted delivery of therapeutic compositions containing an antisense polynucleotide, subgenomic polynucleotides, or antibodies to specific tissues can also be used. Receptor-mediated DNA delivery techniques are described in, for example, Findeis *et al.*, *Trends Biotechnol.* (1993) 11:202; Chiou *et al.*, *Gene Therapeutics: Methods And Applications Of Direct Gene Transfer* (J.A. Wolff, ed.) (1994); Wu *et al.*, *J. Biol. Chem.* (1988) 263:621; Wu *et al.*, *J. Biol.*
10 *Chem.* (1994) 269:542; Zenke *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1990) 87:3655; Wu *et al.*, *J. Biol. Chem.* (1991) 266:338. Therapeutic compositions containing a polynucleotide are administered in a range of about 100 ng to about 200 mg of DNA for local administration in a gene therapy protocol. Concentration ranges of about 500 ng to about 50 mg, about 1 g to about 2 mg, about 5 g to about 500 g, and about 20 g to about 100 g of DNA can also be used during a gene therapy
15 protocol. Factors such as method of action (e.g., for enhancing or inhibiting levels of the encoded gene product) and efficacy of transformation and expression are considerations which will affect the dosage required for ultimate efficacy of the antisense subgenomic polynucleotides. Where greater expression is desired over a larger area of tissue, larger amounts of antisense subgenomic polynucleotides or the same amounts readministered in a successive protocol of administrations, or
20 several administrations to different adjacent or close tissue portions of, for example, a tumor site, may be required to effect a positive therapeutic outcome. In all cases, routine experimentation in clinical trials will determine specific ranges for optimal therapeutic effect. For polynucleotide-related genes encoding polypeptides or proteins with anti-inflammatory activity, suitable use, doses, and administration are described in USPN 5,654,173.

25 The therapeutic polynucleotides and polypeptides of the present invention can be delivered using gene delivery vehicles. The gene delivery vehicle can be of viral or non-viral origin (see generally, Jolly, *Cancer Gene Therapy* (1994) 1:51; Kimura, *Human Gene Therapy* (1994) 5:845; Connelly, *Human Gene Therapy* (1995) 1:185; and Kaplitt, *Nature Genetics* (1994) 6:148). Expression of such coding sequences can be induced using endogenous mammalian or heterologous
30 promoters. Expression of the coding sequence can be either constitutive or regulated.

Viral-based vectors for delivery of a desired polynucleotide and expression in a desired cell are well known in the art. Exemplary viral-based vehicles include, but are not limited to, recombinant retroviruses (see, e.g., WO 90/07936; WO 94/03622; WO 93/25698; WO 93/25234; USPN 5,219,740; WO 93/11230; WO 93/10218; USPN 4,777,127; GB Patent No. 2,200,651; EP 0
35 345 242; and WO 91/02805), alphavirus-based vectors (e.g., Sindbis virus vectors, Semliki forest

virus (ATCC VR-67; ATCC VR-1247), Ross River virus (ATCC VR-373; ATCC VR-1246) and Venezuelan equine encephalitis virus (ATCC VR-923; ATCC VR-1250; ATCC VR 1249; ATCC VR-532), and adeno-associated virus (AAV) vectors (see, e.g., WO 94/12649, WO 93/03769; WO 93/19191; WO 94/28938; WO 95/11984 and WO 95/00655). Administration of DNA linked to
5 killed adenovirus as described in Curiel, *Hum. Gene Ther.* (1992) 3:147 can also be employed.

Non-viral delivery vehicles and methods can also be employed, including, but not limited to, polycationic condensed DNA linked or unlinked to killed adenovirus alone (see, e.g., Curiel, *Hum. Gene Ther.* (1992) 3:147); ligand-linked DNA (see, e.g., Wu, *J. Biol. Chem.* (1989) 264:16985); eukaryotic cell delivery vehicles (see, e.g., USPN 5,814,482; WO 95/07994; WO 96/17072;
10 WO 95/30763; and WO 97/42338) and nucleic acid charge neutralization or fusion with cell membranes. Naked DNA can also be employed. Exemplary naked DNA introduction methods are described in WO 90/11092 and USPN 5,580,859. Liposomes that can act as gene delivery vehicles are described in USPN 5,422,120; WO 95/13796; WO 94/23697; WO 91/14445; and EP 0524968. Additional approaches are described in Philip, *Mol. Cell Biol.* (1994) 14:2411, and in Woffendin, *Proc. Natl.*
15 *Acad. Sci.* (1994) 91:1581.

Further non-viral delivery suitable for use includes mechanical delivery systems such as the approach described in Woffendin *et al.*, *Proc. Natl. Acad. Sci. USA* (1994) 91(24):11581. Moreover, the coding sequence and the product of expression of such can be delivered through deposition of photopolymerized hydrogel materials or use of ionizing radiation (see, e.g., USPN 5,206,152 and
20 WO 92/11033). Other conventional methods for gene delivery that can be used for delivery of the coding sequence include, for example, use of hand-held gene transfer particle gun (see, e.g., USPN 5,149,655); use of ionizing radiation for activating transferred gene (see, e.g., USPN 5,206,152 and WO 92/11033).

The present invention will now be illustrated by reference to the following examples which
25 set forth particularly advantageous embodiments. However, it should be noted that these embodiments are illustrative and are not to be construed as restricting the invention in any way.

EXAMPLES

Example 1: Source of Biological Materials and Overview of Novel Polynucleotides Expressed 30 by the Biological Materials

cDNA libraries were constructed from either human colon cancer cell line Km12L4-A (Morikawa, *et al.*, *Cancer Research* (1988) 48:6863), KM12C (Morikawa *et al.*, *Cancer Res.* (1988) 48:1943-1948), or MDA-MB-231 (Brinkley *et al.*, *Cancer Res.* (1980) 40:3118-3129) was used to construct a cDNA library from mRNA isolated from the cells. Sequences expressed by these cell
35 lines were isolated and analyzed; most sequences were about 275-300 nucleotides in length. The

KM12L4-A cell line is derived from the KM12C cell line. The KM12C cell line, which is poorly metastatic (low metastatic) was established in culture from a Dukes' stage B₂ surgical specimen (Morikawa *et al. Cancer Res.* (1988) 48:6863). The KML4-A is a highly metastatic subline derived from KM12C (Yeatman *et al. Nucl. Acids. Res.* (1995) 23:4007; Bao-Ling *et al. Proc. Annu. Meet. Am. Assoc. Cancer. Res.* (1995) 21:3269). The KM12C and KM12C-derived cell lines (e.g., KM12L4, KM12L4-A, etc.) are well-recognized in the art as a model cell line for the study of colon cancer (see, e.g., Moriakawa *et al., supra*; Radinsky *et al. Clin. Cancer Res.* (1995) 1:19; Yeatman *et al., (1995) supra*; Yeatman *et al. Clin. Exp. Metastasis* (1996) 14:246). The MDA-MB-231 cell line was originally isolated from pleural effusions (Cailleau, *J. Natl. Cancer. Inst.* (1974) 53:661), is of high metastatic potential, and forms poorly differentiated adenocarcinoma grade II in nude mice consistent with breast carcinoma.

The sequences of the isolated polynucleotides were first masked to eliminate low complexity sequences using the XBLAST masking program (Claverie "Effective Large-Scale Sequence Similarity Searches." In: Computer Methods for Macromolecular Sequence Analysis, Doolittle, ed., *Meth. Enzymol.* 266:212-227 Academic Press, NY, NY (1996); see particularly Claverie, in "Automated DNA Sequencing and Analysis Techniques" Adams *et al., eds., Chap. 36*, p. 267 Academic Press, San Diego, 1994 and Claverie *et al. Comput. Chem.* (1993) 17:191). Generally, masking does not influence the final search results, except to eliminate sequences of relative little interest due to their low complexity, and to eliminate multiple "hits" based on similarity to repetitive regions common to multiple sequences, e.g., Alu repeats. Masking resulted in the elimination of 43 sequences. The remaining sequences were then used in a BLASTN vs. GenBank search: sequences that exhibited greater than 70% overlap, 99% identity, and a p value of less than 1×10^{-40} were discarded. Sequences from this search also were discarded if the inclusive parameters were met, but the sequence was ribosomal or vector-derived.

The resulting sequences from the previous search were classified into three groups (1, 2 and 3 below) and searched in a BLASTX vs. NRP (non-redundant proteins) database search: (1) unknown (no hits in the GenBank search), (2) weak similarity (greater than 45% identity and p value of less than 1×10^{-5}), and (3) high similarity (greater than 60% overlap, greater than 80% identity, and p value less than 1×10^{-5}). Sequences having greater than 70% overlap, greater than 99% identity, and p value of less than 1×10^{-40} were discarded.

The remaining sequences were classified as unknown (no hits), weak similarity, and high similarity (parameters as above). Two searches were performed on these sequences. First, a BLAST vs. EST database search was performed and sequences with greater than 99% overlap,

greater than 99% similarity and a p value of less than 1×10^{-40} were discarded. Sequences with a p value of less than 1×10^{-65} when compared to a database sequence of human origin were also excluded. Second, a BLASTN vs. Patent GeneSeq database was performed and sequences having greater than 99% identity, p value less than 1×10^{-40} , and greater than 99% overlap were discarded.

5 The remaining sequences were subjected to screening using other rules and redundancies in the dataset. Sequences with a p value of less than 1×10^{-111} in relation to a database sequence of human origin were specifically excluded. The final result provided the 1,565 sequences listed as SEQ ID NOS:1-1565 in the accompanying Sequence Listing and summarized in Table 1A (inserted prior to claims). Each identified polynucleotide represents sequence from at least a partial mRNA
10 transcript.

Table 1A provides: 1) the SEQ ID NO assigned to each sequence for use in the present specification; 2) the filing date of the U.S. priority application in which the sequence was first filed; 3) the attorney docket number assigned to the priority application (for internal use); 4) the SEQ ID NO assigned to the sequence in the priority application; 5) the sequence name used as an internal
15 identifier of the sequence; and 6) the name assigned to the clone from which the sequence was isolated. Because the provided polynucleotides represent partial mRNA transcripts, two or more polynucleotides of the invention may represent different regions of the same mRNA transcript and the same gene. Thus, if two or more SEQ ID NOS: are identified as belonging to the same clone, then either sequence can be used to obtain the full-length mRNA or gene.

20 In order to confirm the sequences of SEQ ID NOS:1-1565, the clones were retrieved from a library using a robotic retrieval system, and the inserts of the retrieved clones re-sequenced. These "validation" sequences are provided as SEQ ID NOS:1566-2610 in the Sequence Listing, and a summary of the "validation" sequences provided in Table 1B (inserted prior to claims). Table 1B provides: 1) the SEQ ID NO assigned to each sequence for use in the present specification; 2) the
25 sequence name assigned to the "validation" sequence obtained; 3) whether the "validation" sequence contains sequence that overlaps with an original sequence of SEQ ID NOS:1-1565 (Validation Overlap (VO)), or whether the "validation" sequence does not substantially overlap with an original sequence of SEQ ID NOS:1-1565 (indicated by Validation Non-Overlap (VNO)); and
30 4) where the sequence is indicated as VO, the name of the clone that contains the indicated "validation" sequence. "Validation" sequences are indicated as "VO" where the "validation" sequence overlaps with an original sequence (e.g., one of SEQ ID NOS:1-1565), and/or the "validation" sequence belongs to the same cluster as the original sequence using the clustering technique described above. Because the inserts of the clones are generally longer than the original

sequence and the validation sequence. It is possible that a "validation" sequence can be obtained from the same clone as an original sequence but yet not share any of the sequence of the original. Such validation sequences will, however, belong to the same cluster as the original sequence using the clustering technique described above. VO "validation" sequences are contained within the same clone as the original sequence (one of SEQ ID NOS:1-1565). "Validation" sequences that provided overlapping sequence are indicating by "VO" can be correlated with the original sequences they validate by referring to Table 1A. Sequences indicated as VNO are treated as newly isolated sequences and may or may not be related to the sequences of SEQ ID NOS:1-1565. Because the "validation" sequences are often longer than the original polynucleotide sequences and thus provide additional sequence information. All validation sequences can be obtained either from an indicated clone (e.g., for VO sequences) or from a cDNA library described herein (e.g., using primers designed from the sequence provided in the sequence listing).

Example 2: Results of Public Database Search to Identify Function of Gene Products

SEQ ID NOS:1566-2610 were translated in all three reading frames, and the nucleotide sequences and translated amino acid sequences used as query sequences to search for homologous sequences in either the GenBank (nucleotide sequences) or Non-Redundant Protein (amino acid sequences) databases. Query and individual sequences were aligned using the BLAST 2.0 programs, available over the world wide web at <http://www.ncbi.nlm.nih.gov/BLAST/>. (see also Altschul, et al. *Nucleic Acids Res.* (1997) 25:3389-3402). The sequences were masked to various extents to prevent searching of repetitive sequences or poly-A sequences, using the XBLAST program for masking low complexity as described above in Example 1.

Tables 2A and 2B (inserted before the claims) provide the alignment summaries having a p value of 1×10^{-2} or less indicating substantial homology between the sequences of the present invention and those of the indicated public databases. Table 2A provides the SEQ ID NO of the query sequence, the accession number of the GenBank database entry of the homologous sequence, and the p value of the alignment. Table 2A provides the SEQ ID NO of the query sequence, the accession number of the Non-Redundant Protein database entry of the homologous sequence, and the p value of the alignment. The alignments provided in Tables 2A and 2B are the best available alignment to a DNA or amino acid sequence at a time just prior to filing of the present specification. The activity of the polypeptide encoded by the SEQ ID NOS listed in Tables 2A and 2B can be extrapolated to be substantially the same or substantially similar to the activity of the reported nearest neighbor or closely related sequence. The accession number of the nearest neighbor is reported, providing a publicly available reference to the activities and functions exhibited by the

nearest neighbor. The public information regarding the activities and functions of each of the nearest neighbor sequences is incorporated by reference in this application. Also incorporated by reference is all publicly available information regarding the sequence, as well as the putative and actual activities and functions of the nearest neighbor sequences listed in Table 2 and their related sequences. The search program and database used for the alignment, as well as the calculation of the p value are also indicated.

Full length sequences or fragments of the polynucleotide sequences of the nearest neighbors can be used as probes and primers to identify and isolate the full length sequence of the corresponding polynucleotide. The nearest neighbors can indicate a tissue or cell type to be used to construct a library for the full-length sequences of the corresponding polynucleotides.

Example 3: Members of Protein Families

SEQ ID NOS:1566-2601 were used to conduct a profile search as described in the specification above. Several of the polynucleotides of the invention were found to encode polypeptides having characteristics of a polypeptide belonging to a known protein family (and thus represent new members of these protein families) and/or comprising a known functional domain (Table 3A, inserted prior to claims). Table 3A provides the SEQ ID NO: of the query sequence, a brief description of the profile hit, the position of the query sequence within the individual sequence (indicated as "start" and "stop"), and the orientation (Direction) of the query sequence with respect to the individual sequence, where forward (for) indicates that the alignment is in the same direction (left to right) as the sequence provided in the Sequence Listing and reverse (rev) indicates that the alignment is with a sequence complementary to the sequence provided in the Sequence Listing.

Some polynucleotides exhibited multiple profile hits where the query sequence contains overlapping profile regions, and/or where the sequence contains two different functional domains.

Each of the profile hits of Table 3A are described in more detail below. The acronyms for the profiles (provided in parentheses) are those used to identify the profile in the Pfam and Prosite databases. The Pfam database can be accessed through any of the following URLs:

<http://pfam.wustl.edu/index.html>; <http://www.sanger.ac.uk/Software/Pfam/>; and

<http://www.cgr.ki.se/Pfam/>. The Prosite database can be accessed at <http://www.expasy.ch/prosite/>.

The public information available on the Pfam and Prosite databases regarding the various profiles, including but not limited to the activities, function, and consensus sequences of various proteins families and protein domains, is incorporated herein by reference.

14-3-3 Family (14 3 3). SEQ ID NO:1967 corresponds to a sequence encoding a 14-3-3 protein family member. The 14-3-3 protein family includes a group of closely related acidic homodimeric proteins of about 30 kD first identified as very abundant in mammalian brain tissues

and located preferentially in neurons (Aitken et al. *Trends Biochem. Sci.* (1995) 20:95-97; Morrison *Science* (1994) 266:56-57; and Xiao et al. *Nature* (1995) 376:188-191). The 14-3-3 proteins have multiple biological activities, including a key role in signal transduction pathways and the cell cycle.

14-3-3 proteins interact with kinases (e.g., PKC or Raf-1), and can also function as protein-kinase dependent activators of tyrosine and tryptophan hydroxylases. The 14-3-3 protein sequences are extremely well conserved, and include two highly conserved regions: the first is a peptide of 11 residues located in the N-terminal section; the second, a 20 amino acid region located in the C-terminal section. The consensus patterns are as follows: 1) R-N-L-[LIV]-S-[VG]-[GA]-Y-[KN]-N-[IVA]; 2) Y-K-[DE]-S-T-L-I-[IM]-Q-L-[LF]-[RHC]-D-N-[LF]-T-[LS]-W-[TAN]-[SAD].

10 3'5'-Cyclic Nucleotide Phosphodiesterases (PDEase). SEQ ID NO: 2366 represents a polynucleotide encoding a novel 3'5'-cyclic nucleotide phosphodiesterase. PDEases catalyze the hydrolysis of cAMP or cGMP to the corresponding nucleoside 5' monophosphates (Charbonneau et al. *Proc. Natl. Acad. Sci. U.S.A.* (1986) 83:9308). There are at least seven different subfamilies of PDEases (Beavo et al., *Trends Pharmacol. Sci.* (1990) 11:150; <http://weber.u.washington.edu/~pde/>;
15 1) Type 1, calmodulin/calcium-dependent PDEases; 2) Type 2, cGMP-stimulated PDEases; 3) Type 3, cGMP-inhibited PDEases; 4) Type 4, cAMP-specific PDEases.; 5) Type 5, cGMP-specific PDEases; 6) Type 6, rhodopsin-sensitive cGMP-specific PDEases; and 7) Type 7, High affinity cAMP-specific PDEases. All PDEase forms share a conserved domain of about 270 residues. The signature pattern is determined from a stretch of 12 residues that contains two conserved histidines:
20 H-D-[LIVMFY]-x-H-x-[AG]-x(2)-[NQ]-x-[LIVMFY].

Four Transmembrane Integral Membrane Proteins (tm4 family). SEQ ID NOS:1579 and 1978 sequences correspond to a sequence encoding a member of the four transmembrane segments integral membrane protein family (tm4 family). The tm4 family of proteins includes a number of evolutionarily-related eukaryotic cell surface antigens (Levy et al., *J. Biol. Chem.*, (1991) 266:14597; Tomlinson et al., *Eur. J. Immunol.* (1993) 23:136; Barclay et al. *The leucocyte antigen factbooks*, (1993) Academic Press, London/San Diego). The tm4 family members are type III membrane proteins, which are integral membrane proteins containing an N-terminal membrane-anchoring domain that functions both as a translocation signal and as a membrane anchor. The family members also contain three additional transmembrane regions, at least seven conserved
25 cysteines residues, and are of approximately the same size (218 to 284 residues). The consensus pattern spans a conserved region including two cysteines located in a short cytoplasmic loop between two transmembrane domains: Consensus pattern: G-x(3)-[LIVMF]-x(2)-[GSA]-[LIVMF](2)-G-C-x-[GA]-[STA]- x(2)-[EG]-x(2)-[CWN]-[LIVM](2).
30

Seven Transmembrane Integral Membrane Proteins -- Rhodopsin Family (7tm 1). SEQ ID
35 NOS:1652, 1927, and 2068 correspond to a sequence encoding a member of the seven

transmembrane (7tm) receptor rhodopsin family. G-protein coupled receptors of the (7tm) rhodopsin family include hormones, neurotransmitters, and light receptors that transduce extracellular signals by interaction with guanine nucleotide-binding (G) proteins (Strosberg *Eur. J. Biochem.* (1991) 196:1, Kerlavage *Curr. Opin. Struct. Biol.* (1991) 1:394, Probst, et al., *DNA Cell Biol.* (1992) 11:1, Savarese, et al., *Biochem. J.* (1992) 283:1, <http://www.gcrdb.uthscsa.edu/>, <http://swift.embl-heidelberg.de/7tm/>) The consensus pattern that contains the conserved triplet and that also spans the major part of the third transmembrane helix is used to detect this widespread family of proteins: [GSTALIVMFYWC]-[GSTANCPDE]-[EDPKRH]-x(2)-[LIVMNQGA]-x(2)-[LIVMFT]-[GSTANC]-[LIVMFYWSTAC]-[DENH]-R-[FYWCSH]-x(2)-[LIVM].

10 Seven Transmembrane Integral Membrane Proteins -- Secretin Family (7tm_2). SEQ ID NOS:1598, 1719, 1911, 1927, 2068, and 2341 correspond to a sequence encoding a member of the seven transmembrane receptor (7tm) secretin family (Jueppner et al. *Science* (1991) 254:1024; Hamann et al. *Genomics* (1996) 32:144). The N-terminal extracellular domain of these receptors contains five conserved cysteines residues involved in disulfide bonds, with a consensus pattern in
15 the region that spans the first three cysteines. One of the most highly conserved regions spans the C-terminal part of the last transmembrane region and the beginning of the adjacent intracellular region and is used as a second signature pattern. The two consensus patterns are: 1) C-x(3)-[FYWLIV]-D-x(3,4)-C-[FW]-x(2)-[STAGV]-x(8,9)-C-[PF]; and 2) Q-G-[LMFCA]-[LIVMFT]-[LIV]-x-[LIVFST]-[LIF]-[VFYH]-C-[LFY]-x-N-x(2)-V

20 ATPases Associated with Various Cellular Activities (ATPases). Several of the polynucleotides of the invention correspond to a sequence that encodes a member of a family of ATPases Associated with diverse cellular Activities (AAA). The AAA protein family is composed of a large number of ATPases that share a conserved region of about 220 amino acids containing an ATP-binding site (Froehlich et al., *J. Cell Biol.* (1991) 114:443; Erdmann et al. *Cell* (1991) 64:499;
25 Peters et al., *EMBO J.* (1990) 9:1757; Kunau et al., *Biochimie* (1993) 75:209-224; Confalonieri et al., *BioEssays* (1995) 17:639; <http://yeamob.pci.chemie.uni-tuebingen.de/AAA/Description.html>). The AAA domain, which can be present in one or two copies, acts as an ATP-dependent protein clamp (Confalonieri et al. (1995) *BioEssays* 17:639) and contains a highly conserved region located in the central part of the domain. The consensus pattern is: [LIVMT]-x-[LIVMT]-[LIVMF]-x-[GATMC]-[ST]-[NS]-x(4)-[LIVM]-D-x-A-[LIFA]-x-R.

30 Basic Region Plus Leucine Zipper Transcription Factors (BZIP). SEQ ID NO:1623 represents a polynucleotide encoding a novel member of the family of basic region plus leucine zipper transcription factors. The bZIP superfamily (Hurst, *Protein Prof.* (1995) 2:105; and Ellenberger, *Curr. Opin. Struct. Biol.* (1994) 4:12) of eukaryotic DNA-binding transcription factors
35 encompasses proteins that contain a basic region mediating sequence-specific DNA-binding

followed by a leucine zipper required for dimerization. The consensus pattern for this protein family is: [KR]-x(1,3)-[RKSAQ]-N-x(2)-[SAQ](2)-x-[RKTAENQ]-x-R-x-[RK].

C2 domain (C2). SEQ ID NOS: 1715 and 2426 correspond to a sequence encoding a C2 domain, which is involved in calcium-dependent phospholipid binding (Davletov *J. Biol. Chem.* (1993) 268:26386-26390) or, in proteins that do not bind calcium, the domain may facilitate binding to inositol-1,3,4,5-tetraphosphate (Fukuda et al. *J. Biol. Chem.* (1994) 269:29206-29211; Sutton et al. *Cell* (1995) 80:929-938). The consensus sequence is: [ACG]-x(2)-L-x(2,3)-D-x(1,2)-[NGSTLIF]-[GTMR]-x-[STAP]-D-[PA]-[FY].

Cysteine proteases (Cys-protease). SEQ ID NO:2238 represents a polynucleotide encoding a protein having a eukaryotic thiol (cysteine) protease active site. Cysteine proteases (Dufour *Biochimie* (1988) 70:1335) are a family of proteolytic enzymes that contain an active site cysteine. Catalysis proceeds through a thioester intermediate and is facilitated by a nearby histidine side chain: an asparagine completes the essential catalytic triad. The sequences around the three active site residues are well conserved and can be used as signature patterns: Q-x(3)-[GE]-x-C-[YW]-x(2)-[STAGC]-[STAGCV] (where C is the active site residue); 2) [LIVMGSTAN]-x-H-[GSACE]-[LIVM]-x-[LIVMAT](2)-G-x-[GSADNH] (where H is the active site residue); and 3) [FYCH]-[WI]-[LIVT]-x-[KRQAG]-N-[ST]-W-x(3)-[FYW]-G-x(2)-G-[LFYW]-[LIVMFYG]-x-[LIVMF] (where N is the active site residue).

DEAD and DEAH box families ATP-dependent helicases (Dead box helic). SEQ ID NOS:1630, 1865, and 2517 represent polynucleotides encoding a novel member of the DEAD and DEAH box families (Schmid et al., *Mol. Microbiol.* (1992) 6:283; Linder et al., *Nature* (1989) 337:121; Wassarman, et al., *Nature* (1991) 349:463). All members of these families are involved in ATP-dependent, nucleic-acid unwinding. All DEAD box family members share a number of conserved sequence motifs, some of which are specific to the DEAD family, with others shared by other ATP-binding proteins or by proteins belonging to the helicases 'superfamily' (Hodgman *Nature* (1988) 333:22 and *Nature* (1988) 333:578 (Errata); http://www.expasy.ch/www/linder/HELICASES_TEXT.html). One of these motifs, called the 'D-E-A-D-box', represents a special version of the B motif of ATP-binding proteins. Proteins that have His instead of the second Asp and are 'D-E-A-H-box' proteins (Wassarman et al., *Nature* (1991) 349:463; Harosh, et al., *Nucleic Acids Res.* (1991) 19:6331; Koonin, et al., *J. Gen. Virol.* (1992) 73:989; http://www.expasy.ch/www/linder/HELICASES_TEXT.html). The following signature patterns are used to identify member for both subfamilies: 1) [LIVMF](2)-D-E-A-D-[RKEN]-x-[LIVMFYGSTN]; and 2) [GSAH]-x-[LIVMF](3)-D-E-[ALIV]-H-[NECR].

Dual specificity phosphatase (DSPc). Dual specificity phosphatases (DSPs) are Ser/Thr and Tyr protein phosphatases that comprise a tertiary fold highly similar to that of tyrosine-specific

phosphatases, except for a "recognition" region connecting helix alpha1 to strand beta1. This tertiary fold may determine differences in substrate specific between VH-1 related dual specificity phosphatase (VHR), the protein tyrosine phosphatases (PTPs), and other DSPs. Phosphatases are important in the control of cell growth, proliferation, differentiation and transformation.

5 EF Hand (EFhand). SEQ ID NO:1595 corresponds to a polynucleotide encoding a member of the EF-hand protein family, a calcium binding domain shared by many calcium-binding proteins belonging to the same evolutionary family (Kawasaki *et al.*, *Protein. Prof.* (1995) 2:305-490). The domain is a twelve residue loop flanked on both sides by a twelve residue alpha-helical domain, with a calcium ion coordinated in a pentagonal bipyramidal configuration. The six residues involved in
10 the binding are in positions 1, 3, 5, 7, 9 and 12; these residues are denoted by X, Y, Z, -Y, -X and -Z. The invariant Glu or Asp at position 12 provides two oxygens for liganding Ca (bidentate ligand). The consensus pattern includes the complete EF-hand loop as well as the first residue which follows the loop and which seem to always be hydrophobic: D-x-[DNS]-{ILVIFYW}-{DENSTG}-[DNQGHRK]-{GP}-{LIVMC}-[DENQSTAGC]-x(2)-[DE]-[LIVMFYW].

15 Eukaryotic Aspartyl Proteases (asp). Several of the polynucleotides of the invention correspond to a sequence encoding a novel eukaryotic aspartyl protease. Aspartyl proteases, known as acid proteases, (EC 3.4.23.-) are a widely distributed family of proteolytic enzymes (Foltmann., *Essays Biochem.* (1981) 17:52; Davies, *Annu. Rev. Biophys. Chem.* (1990) 19:189; Rao, *et al.*, *Biochemistry* (1991) 30:4663) known to exist in vertebrates, fungi, plants, retroviruses and some
20 plant viruses. Aspartate proteases of eukaryotes are monomeric enzymes which consist of two domains. Each domain contains an active site centered on a catalytic aspartyl residue. The consensus pattern to identify eukaryotic aspartyl protease is: [LIVMFGAC]-[LIVMTADN]-[LIVFSA]-D-[ST]-G-[STAV]-[STAPDENQ]-x-[LIVMFSTNC]-x-[LIVMFGTA], where D is the active site residue.

25 Fibronectin Type II collagen-binding domain (FntypeII). SEQ ID NO: 1968 corresponds to a polynucleotide encoding a polypeptide having a type II fibronectin collagen binding domain. Fibronectin is a plasma protein that binds cell surfaces and various compounds including collagen, fibrin, heparin, DNA, and actin. The major part of the sequence of fibronectin consists of the repetition of three types of domains, called type I, II, and III (Skorstengaard *et al.*, *Eur. J. Biochem.*
30 (1986) 161:441). The type II domain, which is duplicated in fibronectin, is approximately forty residues long, contains four conserved cysteines involved in disulfide bonds and is part of the collagen-binding region of fibronectin. The consensus pattern for identifying members of this family, which pattern spans this entire domain, is: C-x(2)-P-F-x-[FYWI]-x(7)-C-x(8,10)-W-C-x(4)-[DNSR]-[FYW]-x(3,5)-[FYW]-x-[FYWI]-C (where the four C's are involved in disulfide bonds).

35 G-Protein Alpha Subunit (G-alpha). SEQ ID NO: 1779 corresponds to a gene encoding a

member of the G-protein alpha subunit family. G-proteins are a family of membrane-associated proteins that couple extracellularly-activated integral-membrane receptors to intracellular effectors, such as ion channels and enzymes that vary the concentration of second messenger molecules. G-proteins are composed of 3 subunits (alpha, beta and gamma) which, in the resting state, associate as a trimer at the inner face of the plasma membrane. The alpha subunit, which binds GTP and exhibits GTPase activity, is about 350-400 amino acids in length with a molecular weight in the range of 40-45 kDa. Seventeen distinct types of alpha subunit have been identified in mammals, and fall into 4 main groups on the basis of both sequence similarity and function: alpha-s, alpha-q, alpha-i and alpha-12 (Simon *et al.*, *Science* (1993) 252:802). They are often N-terminally acylated, usually with myristate and/or palmitoylate, and these fatty acid modifications can be important for membrane association and high-affinity interactions with other proteins.

Helicases conserved C-terminal domain (helicase_C). SEQ ID NOS: 1621 and 1652 represent polynucleotides encoding novel members of the DEAD/H helicase family. The DEAD and DEAH families are described above.

Helix-Loop-Helix (HLH) DNA Binding Domain (HLH). SEQ ID NO:2192 corresponds to a sequence encoding an HLH domain. The HLH domain, which normally spans about 40 to 50 amino acids, is present in a number of eukaryotic transcription factors. The HLH domain is formed of two amphipathic helices joined by a variable length linker region that forms a loop that mediates protein dimerization (Murre *et al.*, *Cell* (1989) 56:777-783). Basic HLH proteins (bHLH), which have an extra basic region of about 15 amino acid residues adjacent the HLH domain and specifically bind to DNA, include two groups: class A (ubiquitous) and class B (tissue-specific). bHLH family members bind variations of the E-box motif (CANNTG). The homo- or heterodimerization mediated by the HLH domain is independent of, but necessary for DNA binding, as two basic regions are required for DNA binding activity. The HLH proteins lacking the basic domain function as negative regulators since they form heterodimers, but fail to bind DNA. Consensus pattern: [DENSTAP]-[KTR]-[LIVMAGSNT]-{FYWCPHKR}-[LIVMT]-[LIVM]-x(2)-[STAV]-[LIVMSTACKR]-x-[VMFYH]-[LIVMTA]-{P}-{P}-[LIVMRKHQ].

Kinase Domain of Tors. The TOR profile is directed towards a lipid kinase protein family. This family is composed of large proteins with a lipid and protein kinase domain and characterized through their sensitivity to rapamycin (an antifungal compound). TOR proteins are involved in signal transduction downstream of PI3 kinase and many other signals. TOR (also called FRAP, RAFT) plays a role in regulating protein synthesis and cell growth, and in yeast controls translation initiation and early G1 progression. See, e.g., Barbet *et al.*, *Mol Biol Cell.* (1996) 7(1):25-42; Helliwell *et al.*, *Genetics* (1998) 148:99-112.

MAP kinase kinase (mkk). SEQ ID NOS: 1825, 1876, 2039, and 2526 represent members of

the MAP kinase kinase (mkk) family. MAP kinases (MAPK) are involved in signal transduction, and are important in cell cycle and cell growth controls. The MAP kinase kinases (MAPKK) are dual-specificity protein kinases which phosphorylate and activate MAP kinases. MAPKK homologues have been found in yeast, invertebrates, amphibians, and mammals. Moreover, the MAPKK/MAPK phosphorylation switch constitutes a basic module activated in distinct pathways in yeast and in vertebrates. MAPKKs are essential transducers through which signals must pass before reaching the nucleus. For review, see, e.g., *Biologique Mol Cell* (1993) 79:193-207; Nishida *et al.*, *Trends Biochem Sci* (1993) 18:128-31; Ruderman *Curr Opin Cell Biol* (1993) 5:207-13; Dhanasekaran *et al.*, *Oncogene* (1998) 17:1447-55; Kiefer *et al.*, *Biochem Soc Trans* (1997) 25:491-8; and Hill, *Cell Signal* (1996) 8:533-44.

Neurotransmitter-Gated Ion-Channel (neur_chan). Several of the sequences correspond to a sequence encoding a neurotransmitter-gated ion channel. Neurotransmitter-gated ion-channels, which provide the molecular basis for rapid signal transmission at chemical synapses, are post-synaptic oligomeric transmembrane complexes that transiently form a ionic channel upon the binding of a specific neurotransmitter. Five types of neurotransmitter-gated receptors are known: 1) nicotinic acetylcholine receptor (AChR); 2) glycine receptor; 3) gamma-aminobutyric-acid (GABA) receptor; 4) serotonin 5HT3 receptor; and 5) glutamate receptor. All known sequences of subunits from neurotransmitter-gated ion-channels are structurally related, and are composed of a large extracellular glycosylated N-terminal ligand-binding domain, followed by three hydrophobic transmembrane regions that form the ionic channel, followed by an intracellular region of variable length. A fourth hydrophobic region is found at the C-terminal of the sequence. The consensus pattern is: C-x-[LIVMFQ]-x-[LIVMF]-x(2)-[FY]-P-x-D-x(3)-C, where the two C's are linked by a disulfide bond.

Protein Kinase (protkinase). Several sequences represent polynucleotides encoding protein kinases, which catalyze phosphorylation of proteins in a variety of pathways, and are implicated in cancer. Eukaryotic protein kinases (Hanks, *et al.*, *FASEB J.* (1995) 9:576; Hunter, *Meth. Enzymol.* (1991) 200:3; Hanks, *et al.*, *Meth. Enzymol.* (1991) 200:38; Hanks, *Curr. Opin. Struct. Biol.* (1991) 1:369; Hanks *et al.*, *Science* (1988) 241:42) belong to a very extensive family of proteins that share a conserved catalytic core common to both serine/threonine and tyrosine protein kinases. There are a number of conserved regions in the catalytic domain of protein kinases. The first region, located in the N-terminal extremity of the catalytic domain, is a glycine-rich stretch of residues in the vicinity of a lysine residue, which has been shown to be involved in ATP binding. The second region, located in the central part of the catalytic domain, contains a conserved an aspartic acid residue that is important for the catalytic activity of the enzyme (Knighton, *et al.*, *Science* (1991) 253:407).

The protein kinase profile includes two signature patterns for this second region: one

specific for serine/threonine kinases and the other for tyrosine kinases. A third profile is based on the alignment in (Hanks, *et al.*, *FASEB J.* (1995) 9:576) and covers the entire catalytic domain. The consensus patterns are as follows: 1) [LIV]-G-{P}-G-{P}-[FYWMGSTNH]-[SGA]-{PW}-[LIVCAT]-{PD}-x-[GSTACLIVMFY]-x(5,18)-[LIVMFYWCSTAR]-[AIVP]-[LIVMFAGCKR]-K, where K binds ATP; 2) [LIVMFYC]-x-[HY]-x-D-[LIVMFY]-K-x(2)-N-[LIVMFYCT](3), where D is an active site residue; and 3) [LIVMFYC]-x-[HY]-x-D-[LIVMFY]-[RSTAC]-x(2)-N-[LIVMFYC], where D is an active site residue.

Protein Tyrosine Phosphatase (Y phosphatase) (PTPase). SEQ ID NOS: 1719, 1769, 2062, 2197, and 2275 represent polynucleotides encoding a tyrosine-specific protein phosphatase, a kinase that catalyzes the removal of a phosphate groups attached to a tyrosine residue (EC 3.1.3.48) (PTPase) (Fischer *et al.*, *Science* (1991) 253:401; Charbonneau *et al.*, *Annu. Rev. Cell Biol.* (1992) 8:463; Trowbridge *Biol. Chem.* (1991) 266:23517; Tonks *et al.*, *Trends Biochem. Sci.* (1989) 14:497; and Hunter, *Cell* (1989) 58:1013). PTPases are important in the control of cell growth, proliferation, differentiation and transformation. Multiple forms of PTPase have been characterized and can be classified into two categories: soluble PTPases and transmembrane receptor proteins that contain PTPase domain(s). Structurally, all known receptor PTPases are made up of a variable length extracellular domain, followed by a transmembrane region and a C-terminal catalytic cytoplasmic domain. PTPase domains consist of about 300 amino acids. Two conserved cysteines are absolutely required for activity, with a number of other conserved residues in the immediate vicinity also important for activity. The consensus pattern for PTPases is: [LIVMF]-H-C-x(2)-G-x(3)-[STC]-[STAGP]-x-[LIVMFY]; C is the active site residue.

RNA Recognition Motif (rrm). SEQ ID NOS: 1850 and 2194 correspond to sequence encoding an RNA recognition motif, also known as an RRM, RBD, or RNP domain. This domain, which is about 90 amino acids long, is contained in eukaryotic proteins that bind single-stranded RNA (Bandziulis *et al.*, *Genes Dev.* (1989) 3:431-437; Dreyfuss *et al.*, *Trends Biochem. Sci.* (1988) 13:86-91). Two regions within the RNA-binding domain are highly conserved: the first is a hydrophobic segment of six residues (which is called the RNP-2 motif), the second is an octapeptide motif (which is called RNP-1 or RNP-CS). The consensus pattern is: [RK]-G-{EDRKHPCG}-{AGSCI}-{FY}-{LIVA}-x-{FYLM}.

SH2 Domain (SH2). SEQ ID NO: 2441 corresponds to a sequence encoding an SH2 domain. The Src homology 2 (SH2) domain includes an approximately 100 amino acid residue domain, which is conserved in the oncoproteins Src and Fps, as well as in many other intracellular signal-transducing proteins (Sadowski *et al.*, *Mol. Cell. Biol.* (1986) 6:4396-4408; Russel *et al.*, *FEBS Lett.* (1992) 304:15-20). SH2 domains function as regulatory modules of intracellular signaling cascades by interacting with high affinity to phosphotyrosine-containing target peptides in

a sequence-specific and strictly phosphorylation-dependent manner. The SH2 domain has a conserved 3D structure consisting of two alpha helices and six to seven beta-strands. The core of the domain is formed by a continuous beta-meander composed of two connected beta-sheets (Kuriyan et al. *Curr. Opin. Struct. Biol.* (1993) 3:828-837).

5 Thioredoxin family active site (Thioredoxin). SEQ ID NO: 1618 represents a polynucleotide encoding a protein of the thioredoxin family. Thioredoxins are small proteins of approximately one hundred amino acid residues that participate in various redox reactions via the reversible oxidation of an active center disulfide bond (Holmgren. *Annu. Rev. Biochem.* (1985) 54:237; Gleason, et al., *FEMS Microbiol. Rev.* (1988) 54:271; Holmgren A. *J. Biol. Chem.* (1989) 264:13963; Eklund, et al. 10 *Proteins* (1991) 11:13). Thioredoxins exist in either reduced or oxidized forms where the two cysteine residues are linked in an intramolecular disulfide bond. The sequence around the redox-active disulfide bond is well conserved. The consensus pattern is: [LIVMF]-[LIVMSTA]-x-[LIVMFYC]-[FYWSTHE]-x(2)-[FYWGTVN]-C-[GATPLVE]-[PHYWSTA]-C-x(6)-[LIVMFYWT] (where the two C's form the redox-active bond).

15 Trypsin (trypsin). SEQ ID NOS: 1579, 2290, 2341, 2421, 2430, and 2438 correspond to novel serine proteases of the trypsin family. The catalytic activity of the serine proteases from the trypsin family is provided by a charge relay system involving an aspartic acid residue hydrogen-bonded to a histidine, which itself is hydrogen-bonded to a serine. The sequences in the vicinity of the active site serine and histidine residues are well conserved (Brenner *Nature* (1988) 334:528). 20 The consensus patterns for the trypsin protein family are: 1) [LIVM]-[ST]-A-[STAG]-H-C, where H is the active site residue; and 2) [DNSTAGC]-[GSTAPIMVQH]-x(2)-G-[DE]-S-G-[GS]-[SAPHV]-[LIVMFYWH]-[LIVMFYSTANQH], where S is the active site residue. All sequences known to belong to this family are detected by the above consensus sequences, except for 18 different proteases which have lost the first conserved glycine. If a protein includes both the serine and the 25 histidine active site signatures, the probability of it being a trypsin family serine protease is 100%.

WD Domain, G-Beta Repeats (WD domain). SEQ ID NO: 2281 represents a members of the WD domain/G-beta repeat family. Beta-transducin (G-beta) is one of the three subunits (alpha, beta, and gamma) of the guanine nucleotide-binding proteins (G proteins) which act as intermediaries in the transduction of signals generated by transmembrane receptors (Gilman, *Annu. 30 Rev. Biochem.* (1987) 56:615). The alpha subunit binds to and hydrolyzes GTP; the beta and gamma subunits are required for the replacement of GDP by GTP as well as for membrane anchoring and receptor recognition. In higher eukaryotes, G-beta exists as a small multigene family of highly conserved proteins of about 340 amino acid residues. Structurally, G-beta has eight tandem repeats of about 40 residues, each containing a central Trp-Asp motif (this type of repeat is sometimes 35 called a WD-40 repeat). The consensus pattern for the WD domain/G-Beta repeat family is:

[LIVMSTAC]-[LIVMFYWSTAGC]-[LIMSTAG]-[LIVMSTAGC]-x(2)-[DN]-x(2)-
[LIVMWSTAC]-x-[LIVMFSTAG]-W-[DEN]-[LIVMFSTAGCN].

wnt Family of Developmental Signaling Proteins (Wnt dev sign). Several of the sequences correspond to novel members of the wnt family of developmental signaling proteins. Wnt-1 (previously known as int-1), the seminal member of this family. (Nusse. *Trends Genet.* (1988) 4:291) plays a role in intercellular communication and is important in central nervous system development. All wnt family proteins share the following features characteristic of secretory proteins: a signal peptide, several potential N-glycosylation sites and 22 conserved cysteines that may be involved in disulfide bonds. Wnt proteins generally adhere to the plasma membrane of secreting cells and are therefore likely to signal over only few cell diameters. The consensus pattern, which is based upon a highly conserved region including three cysteines, is as follows: C-K-C-H-G-[LIVMT]-S-G-x-C.

Zinc Finger, C2H2 Type (Zincfing C2H2). SEQ ID NOS: 1735, 1942, 2018, 2254, and 2515 correspond to polynucleotides encoding members of the C2H2 type zinc finger protein family, which contain zinc finger domains that facilitate nucleic acid binding (Klug *et al.*, *Trends Biochem. Sci.* (1987) 12:464; Evans *et al.*, *Cell* (1988) 52:1; Payre *et al.*, *FEBS Lett.* (1988) 234:245; Miller *et al.*, *EMBO J.* (1985) 4:1609; and Berg, *Proc. Natl. Acad. Sci. USA* (1988) 85:99). In addition to the conserved zinc ligand residues, a number of other positions are also important for the structural integrity of the C2H2 zinc fingers. (Rosenfeld *et al.*, *J. Biomol. Struct. Dyn.* (1993) 11:557) The best conserved position, which is generally an aromatic or aliphatic residue, is located four residues after the second cysteine. The consensus pattern for C2H2 zinc fingers is: C-x(2,4)-C-x(3)-[LIVMFYWC]-x(8)-H-x(3,5)-H. The two C's and two H's are zinc ligands.

Example 4: Differential Expression of Polynucleotides of the Invention: Description of Libraries and Detection of Differential Expression

The relative expression levels of the polynucleotides of the invention was assessed in several libraries prepared from various sources, including cell lines and patient tissue samples. Table 4 provides a summary of these libraries, including the shortened library name (used hereafter), the mRNA source used to prepared the cDNA library, the "nickname" of the library that is used in the tables below (in quotes), and the approximate number of clones in the library.

Table 4. Description of cDNA Libraries

Library (lib #)	Description	Number of Clones in Cluster
1	Km12 L4 Human Colon Cell Line, High Metastatic Potential (derived from Km12C): "High Met Colon"	307133

Library (lib #)	Description	Number of Clones in Cluster
2	Km12C Human Colon Cell Line. Low Metastatic Potential: "Low Met Colon"	284755
3	MDA-MB-231 Human Breast Cancer Cell Line. High Metastatic Potential: micro- metastases in lung: "High Met Breast"	326937
4	MCF7 Human Breast Cancer Cell. Non Metastatic: "Low Met Breast"	318979
8	MV-522 Human Lung Cancer Cell Line. High Metastatic Potential: "High Met Lung"	223620
9	UCP-3 Human Lung Cancer Cell Line. Low Metastatic Potential: "Low Met Lung"	312503
12	Human microvascular endothelial cells (HMEC) – Untreated PCR (OligodT) cDNA library: "HMEC"	41938
13	Human microvascular endothelial cells (HMEC) – Basic fibroblast growth factor (bFGF) treated PCR (OligodT) cDNA library: "HMEC-bFGF"	42100
14	Human microvascular endothelial cells (HMEC) – Vascular endothelial growth factor (VEGF) treated PCR (OligodT) cDNA library: "HMEC-VEGF"	42825
15	Normal Colon – UC#2 Patient PCR (OligodT) cDNA library: "Normal Colon Tissue"	282722
16	Colon Tumor – UC#2 Patient PCR (OligodT) cDNA library: "Normal Colon Tumor Tissue"	298831
17	Liver Metastasis from Colon Tumor of UC#2 Patient PCR (OligodT) cDNA library: "High Met Colon Tissue"	303467
18	Normal Colon – UC#3 Patient PCR (OligodT) cDNA library: "Normal Colon Tissue"	36216
19	Colon Tumor – UC#3 Patient PCR (OligodT) cDNA library: "Colon Tumor Tissue"	41388
20	Liver Metastasis from Colon Tumor of UC#3 Patient PCR (OligodT) cDNA library: "High Met Colon Tissue"	30956
21	GRRpz Human Prostate Cell Line: "Normal Prostate"	164801
22	Woca Human Prostate Cancer Cell Line: "Prostate Cancer"	162088

The KM12L4, KM12C, and MDA-MB-231 cell lines are described in Example 1 above. The MCF7 cell line was derived from a pleural effusion of a breast adenocarcinoma and is non-metastatic. The MV-522 cell line is derived from a human lung carcinoma and is of high metastatic potential. The UCP-3 cell line is a low metastatic human lung carcinoma cell line; the MV-522 is a high metastatic variant of UCP-3. These cell lines are well-recognized in the art as models for the study of human breast and lung cancer (see, e.g., Chandrasekaran *et al.*, *Cancer Res.* (1979) 39:870 (MDA-MB-231 and MCF-7); Gastpar *et al.*, *J Med Chem* (1998) 41:4965 (MDA-MB-231 and

MCF-7); Ranson *et al.*, *Br J Cancer* (1998) 77:1586 (MDA-MB-231 and MCF-7); Kuang *et al.*, *Nucleic Acids Res* (1998) 26:1116 (MDA-MB-231 and MCF-7); Varki *et al.*, *Int J Cancer* (1987) 40:46 (UCP-3); Varki *et al.*, *Tumour Biol.* (1990) 11:327; (MV-522 and UCP-3); Varki *et al.*, *Anticancer Res.* (1990) 10:637; (MV-522); Kelner *et al.*, *Anticancer Res* (1995) 15:867 (MV-522);
5 and Zhang *et al.*, *Anticancer Drugs* (1997) 8:696 (MV522)). The samples of libraries 15-20 are derived from two different patients (UC#2, and UC#3). The bFGF-treated HMEC were prepared by incubation with bFGF at 10ng/ml for 2 hrs; the VEGF-treated HMEC were prepared by incubation with 20ng/ml VEGF for 2 hrs. Following incubation with the respective growth factor, the cells were washed and lysis buffer added for RNA preparation. The GRRpz and WOca cell lines were
10 provided by Dr. Donna M. Peehl, Department of Medicine, Stanford University School of Medicine. GRRpz was derived from normal prostate epithelium. The WOca cell line is a Gleason Grade 4 cell line.

Each of the libraries is composed of a collection of cDNA clones that in turn are representative of the mRNAs expressed in the indicated mRNA source. In order to facilitate the
15 analysis of the millions of sequences in each library, the sequences were assigned to clusters. The concept of "cluster of clones" is derived from a sorting/grouping of cDNA clones based on their hybridization pattern to a panel of roughly 300 7bp oligonucleotide probes (see Drmanac *et al.*, *Genomics* (1996) 37(1):29). Random cDNA clones from a tissue library are hybridized at moderate stringency to 300 7bp oligonucleotides. Each oligonucleotide has some measure of specific
20 hybridization to that specific clone. The combination of 300 of these measures of hybridization for 300 probes equals the "hybridization signature" for a specific clone. Clones with similar sequence will have similar hybridization signatures. By developing a sorting/grouping algorithm to analyze these signatures, groups of clones in a library can be identified and brought together computationally. These groups of clones are termed "clusters". Depending on the stringency of the
25 selection in the algorithm (similar to the stringency of hybridization in a classic library cDNA screening protocol), the "purity" of each cluster can be controlled. For example, artifacts of clustering may occur in computational clustering just as artifacts can occur in "wet-lab" screening of a cDNA library with 400 bp cDNA fragments, at even the highest stringency. The stringency used in the implementation of cluster herein provides groups of clones that are in general from the same
30 cDNA or closely related cDNAs. Closely related clones can be a result of different length clones of the same cDNA, closely related clones from highly related gene families, or splice variants of the same cDNA.

Differential expression for a selected cluster was assessed by first determining the number of cDNA clones corresponding to the selected cluster in the first library (Clones in 1st), and the
35 determining the number of cDNA clones corresponding to the selected cluster in the second library

(Clones in 2nd). Differential expression of the selected cluster in the first library relative to the second library is expressed as a "ratio" of percent expression between the two libraries. In general, the "ratio" is calculated by: 1) calculating the percent expression of the selected cluster in the first library by dividing the number of clones corresponding to a selected cluster in the first library by the total number of clones analyzed from the first library; 2) calculating the percent expression of the selected cluster in the second library by dividing the number of clones corresponding to a selected cluster in a second library by the total number of clones analyzed from the second library; 3) dividing the calculated percent expression from the first library by the calculated percent expression from the second library. If the "number of clones" corresponding to a selected cluster in a library is zero, the value is set at 1 to aid in calculation. The formula used in calculating the ratio takes into account the "depth" of each of the libraries being compared, *i.e.*, the total number of clones analyzed in each library.

In general, a polynucleotide is said to be significantly differentially expressed between two samples when the ratio value is greater than at least about 2, preferably greater than at least about 3, more preferably greater than at least about 5, where the ratio value is calculated using the method described above. The significance of differential expression is determined using a z score test (Zar, Biostatistical Analysis, Prentice Hall, Inc., USA, "Differences between Proportions," pp 296-298 (1974).

Examples 5-12: Differential Expression of Polynucleotides of the Invention

A number of polynucleotide sequences have been identified that are differentially expressed between, for example, cells derived from high metastatic potential cancer tissue and low metastatic cancer cells, and between cells derived from high metastatic potential cancer tissue and normal tissue. Evaluation of the levels of expression of the genes corresponding to these sequences can be valuable in diagnosis, prognosis, and/or treatment (*e.g.*, to facilitate rationale design of therapy, monitoring during and after therapy, *etc.*). Moreover, the genes corresponding to differentially expressed sequences described herein can be therapeutic targets due to their involvement in regulation (*e.g.*, inhibition or promotion) of development of, for example, the metastatic phenotype. For example, sequences that correspond to genes that are increased in expression in high metastatic potential cells relative to normal or non-metastatic tumor cells may encode genes or regulatory sequences involved in processes such as angiogenesis, differentiation, cell replication, and metastasis.

Detection of the relative expression levels of differentially expressed polynucleotides described herein can provide valuable information to guide the clinician in the choice of therapy.

For example, a patient sample exhibiting an expression level of one or more of these polynucleotides

that corresponds to a gene that is increased in expression in metastatic or high metastatic potential cells may warrant more aggressive treatment for the patient. In contrast, detection of expression levels of a polynucleotide sequence that corresponds to expression levels associated with that of low metastatic potential cells may warrant a more positive prognosis than the gross pathology would suggest.

A number of polynucleotide sequences of the present invention are differentially expressed between human microvascular endothelial cells (HMEC) that have been treated with growth factors relative to untreated HMEC. Sequences that are differentially expressed between growth factor-treated HMEC and untreated HMEC can represent sequences encoding gene products involved in angiogenesis, metastasis (cell migration), and other development and oncogenic processes. For example, sequences that are more highly expressed in HMEC treated with growth factors (such as bFGF or VEGF) relative to untreated HMEC can serve as markers of cancer cells of higher metastatic potential. Detection of expression of these sequences in colon cancer tissue can be valuable in determining diagnostic, prognostic and/or treatment information associated with the prevention of achieving the malignant state in these tissues, and can be important in risk assessment for a patient. A patient sample displaying an increased level of one or more of these polynucleotides may thus warrant closer attention or more frequent screening procedures to catch the malignant state as early as possible.

The differential expression of the polynucleotides described herein can thus be used as, for example, diagnostic markers, prognostic markers, for risk assessment, patient treatment and the like.

These polynucleotide sequences can also be used in combination with other known molecular and/or biochemical markers. The following examples provide relative expression levels of polynucleotides from specified cell lines and patient tissue samples.

Example 5: High Metastatic Potential Breast Cancer Versus Low Metastatic Breast Cancer Cells

The following tables summarize polynucleotides that represent genes that are differentially expressed between high metastatic potential and low metastatic potential breast cancer cells.

Table 5. High metastatic potential breast (lib3) > low metastatic potential (lib4) breast cancer cells

SEQ ID NO:	Lib3 Clones	Lib4 Clones	Lib3/Lib4
1213	40	0	39
1538	60	3	20
1466	14	0	14
1356	10	0	10
1383	10	1	10
1158	10	1	10
441	10	1	10
1338	10	0	10
1426	19	2	9

SEQ ID NO:	Lib3 Clones	Lib4 Clones	Lib3/Lib4
1547	9	1	9
1313	8	1	8
841	8	1	8
1534	8	0	8
1503	8	0	8
829	8	1	8
1408	8	0	8
1447	7	0	7
1389	7	0	7
356	7	0	7
1492	7	0	7
1543	22	3	7
799	7	0	7
1437	6	0	6
1251	6	0	6
972	18	3	6
1482	6	0	6
1299	6	0	6
109	24	4	6
1558	6	0	6
1355	6	0	6
1548	11	2	5
250	10	2	5
919	26	6	4
358	36	12	3
1525	75	28	3
1157	49	17	3

Table 6. Low metastatic potential breast (lib4) > high metastatic potential breast cancer cells (lib3)

SEQ ID NO:	Lib3 Clones	Lib4 Clones	Lib4/Lib3
248	0	58	59
726	1	23	24
14	1	19	19
699	0	14	14
763	1	14	14
20	1	13	13
79	1	13	13
715	0	10	10
991	0	8	8
1199	0	8	8
707	0	7	7
1128	4	26	7
891	0	6	6
1146	2	11	6
731	7	44	6
1518	3	15	5
340	3	13	4
949	4	13	3

SEQ ID NO:	Lib3 Clones	Lib4 Clones	Lib4/Lib3
1247	7	18	3
1185	497	1216	3

Example 6: High Metastatic Potential Lung Cancer Versus Low Metastatic Lung Cancer Cells

The following summarizes polynucleotides that represent genes differentially expressed between high metastatic potential lung cancer cells and low metastatic potential lung cancer cells:

5 **Table 7. High metastatic potential lung (lib8) > low metastatic potential lung (lib9) lung cancer cells**

SEQ ID NO:	Lib8 Clones	Lib9 Clones	Lib8/Lib9
150	31	0	43
651	43	2	30
1298	14	1	20
57	11	0	15
625	7	0	10
1322	7	1	10
36	7	0	10
621	18	3	8
215	6	1	8
561	19	4	7
247	5	0	7
199	5	0	7
998	5	0	7
502	5	0	7
1382	8	2	6
1181	17	4	6
1309	8	2	6
1157	15	4	5
1260	14	5	4
1185	710	266	4
1525	21	10	3

Table 8. Low metastatic potential lung (lib9) > high metastatic potential lung (lib8) cancer cells

SEQ ID NO:	Lib8 Clones	Lib9 Clones	Lib9/Lib8
924	1	13	9
822	1	13	9
728	1	12	9
341	1	12	9
1527	3	31	7
698	4	26	5
949	2	15	5
744	3	23	5
973	8	27	2

Example 7: High Metastatic Potential Colon Cancer Versus Low Metastatic Colon Cancer Cells

Tables 9 and 10 summarize polynucleotides that represent genes differentially expressed between high metastatic potential and low metastatic potential colon cancer cells:

5 **Table 9. High metastatic potential (lib1) > low metastatic potential (lib2) colon cancer cells**

SEQ ID NO:	Lib1 Clones	Lib2 Clones	Lib1/Lib2
248	67	2	31
87	12	0	11
698	11	0	10
57	13	3	4
924	24	10	2
1249	24	9	2

Table 10. Low metastatic potential (lib2) > high metastatic potential colon cancer (lib1) cells

SEQ ID NO:	Lib1 Clones	Lib2 Clones	Lib2/Lib1
1268	1	17	18
1114	0	15	16
1032	1	14	15
109	5	60	13
973	1	11	12
91	1	11	12
982	0	9	10
1267	3	28	10
93	1	8	9
1556	1	8	9
1251	0	8	9
1206	2	17	9
812	0	8	9
1254	0	7	8
1220	0	7	8
766	0	7	8
1156	0	7	8
1007	0	7	8
981	0	7	8
762	0	7	8
876	0	6	6
1234	2	11	6
1183	0	6	6
1044	2	12	6
785	0	6	6
1069	3	17	6
770	0	6	6
778	0	6	6
792	0	6	6
822	2	10	5
1258	7	23	4
1224	7	17	3

SEQ ID NO:	Lib1 Clones	Lib2 Clones	Lib2/Lib1
984	8	19	3
841	10	28	3
339	14	34	3
1213	11	29	3
1201	5	14	3
1192	22	48	2

Example 8: High Metastatic Potential Colon Cancer Patient Tissue Vs. Normal Patient Tissue

Tables 11 summarizes polynucleotides that represent genes differentially expressed between high metastatic potential colon cancer cells and normal colon cells of patient tissue. :

5 **Table 11. High metastatic potential colon tissue (lib17) vs. normal colon tissue (lib15)**

SEQ ID NO:	Lib15 Clones	Lib17 Clones	Lib17/Lib15
1422	1	13	12
1132	1	10	9
730	1	9	8
1311	0	7	7
78	9	48	5
822	5	20	4
SEQ ID NO:	Lib15 Clones	Lib17 Clones	Lib15/Lib17
463	8	1	9

Example 9: High Tumor Potential Colon Tissue Vs. Metastasized Colon Cancer Tissue

The following table summarizes polynucleotides that represent genes differentially expressed between high tumor potential colon cancer cells and cells derived from high metastatic potential colon cancer cells of a patient.

10 **Table 12. High tumor potential colon tissue (lib16) vs. high metastatic colon tissue (lib17)**

SEQ ID NO:	Lib16 Clones	Lib17 Clones	Lib16/Lib17
1185	14	4	4
SEQ ID NO:	Lib16 Clones	Lib17 Clones	Lib17/Lib16
822	2	20	10

Example 10: High Tumor Potential Colon Cancer Patient Tissue Versus Normal Patient Tissue

Tables 13 and 14 summarize polynucleotides that represent genes differentially expressed between high metastatic potential colon cancer cells and normal colon cells in patient tissue:

15 **Table 13. Higher expression in tumor potential colon tissue (lib16) vs. normal colon tissue (lib15)**

SEQ ID NO:	Lib15 Clones	Lib16 Clones	Lib16/Lib15
1311	0	8	8
78	9	28	3

Table 14. Higher expression in normal colon tissue (lib15) vs. tumor potential colon tissue (lib16)

SEQ ID NO:	Lib15 Clones	Lib16 Clones	Lib15/Lib16
463	8	0	8
1099	12	3	4

Example 11: Growth Factor-Stimulated Human Microvascular Endothelial Cells (HMEC)

5 Relative to Untreated HMEC

The following tables summarize polynucleotides that represent genes differentially expressed between growth factor-treated and untreated HMEC.

Table 15. Higher expression in bFGF treated HMEC (lib13) vs. untreated HMEC (lib12)

SEQ ID NO:	Lib12 Clones	Lib13 Clones	Lib13/Lib12
1520	9	23	3
1538	17	35	2

10 **Table 16.** Higher expression in VEGF treated HMEC (lib14) vs. untreated HMEC (lib12)

SEQ ID NO:	Lib12 Clones	Lib14 Clones	Lib14/Lib12
1154	2	12	6
1226	2	10	5
1538	17	38	2

Example 12: Polynucleotides Differentially Expressed in Human Prostate Cancer Cells Relative to Normal Human Prostate Cells

The following tables summarize identified polynucleotides that represent genes differentially expressed between prostate cancer cells and normal prostate cells:

Table 17. Higher expression in normal prostate cells (lib21) relative to prostate cancer cells (lib22)

SEQ ID NO:	Lib21 Clones	Lib22 Clones	Lib21/Lib22
1525	6	0	6
248	116	51	2
1203	22	9	2

Table 18 Higher expression in prostate cancer cells (lib22) relative to normal prostate cells (lib21)

SEQ ID NO:	Lib21 Clones	Lib22 Clones	Lib22/Lib21
1213	0	34	35
340	1	12	12
699	0	11	11

20 **Example 13:** Differential Expression Across Multiple Libraries

A number of polynucleotide sequences have been identified that represent genes that are differentially expressed across multiple libraries. Expression of these sequences in a tissue or any

origin can be valuable in determining diagnostic, prognostic and/or treatment information associated with the prevention of achieving the malignant state in these tissues, and can be important in risk assessment for a patient. These polynucleotides can also serve as non-tissue specific markers of, for example, risk of metastasis of a tumor. Table 19 summarizes this data.

5

Table 19. Genes Differentially Expressed Across Multiple Library Comparisons

SEQ ID NO:	Cell or Tissue Sample and Cancer State Compared	Ratio
57	High Met Lung (lib8) > Low Met Lung (lib9)	15
57	High Met Colon (lib1) > Low Met Colon (lib2)	4
78	High Met Colon Tissue (lib17) > Normal Colon Tissue (lib15)	5
78	Normal Colon Tumor Tissue (lib16) > Normal Colon Tissue (lib15)	3
109	High Met Breast (lib3) > Low Met Breast (lib4)	6
109	Low Met Colon (lib2) > High Met Colon (lib1)	13
248	High Met Colon (lib1) > Low Met Colon (lib2)	31
248	Normal Prostate (lib21) > Prostate Cancer (lib22)	2
248	Low Met Breast (lib4) > High Met Breast (lib3)	59
340	Prostate Cancer (lib22) > Normal Prostate (lib21)	12
340	Low Met Breast (lib4) > High Met Breast (lib3)	4
463	Normal Colon Tissue (lib15) > High Met Colon Tissue (lib17)	9
463	Normal Colon Tissue (lib15) > Normal Colon Tumor Tissue (lib16)	8
698	High Met Colon (lib1) > Low Met Colon (lib2)	10
698	Low Met Lung (lib9) > High Met Lung (lib8)	5
699	Low Met Breast (lib4) > High Met Breast (lib3)	14
699	Prostate Cancer (lib22) > Normal Prostate (lib21)	11
822	High Met Colon Tissue (lib17) > Normal Colon Tumor Tissue (lib16)	10
822	Low Met Lung (lib9) > High Met Lung (lib8)	9
822	Low Met Colon (lib2) > High Met Colon (lib1)	5
822	High Met Colon Tissue (lib17) > Normal Colon Tissue (lib15)	4
841	High Met Breast (lib3) > Low Met Breast (lib4)	8
841	Low Met Colon (lib2) > High Met Colon (lib1)	3
924	High Met Colon (lib1) > Low Met Colon (lib2)	2
924	Low Met Lung (lib9) > High Met Lung (lib8)	9
949	Low Met Lung (lib9) > High Met Lung (lib8)	5
949	Low Met Breast (lib4) > High Met Breast (lib3)	3
973	Low Met Colon (lib2) > High Met Colon (lib1)	12
973	Low Met Lung (lib9) > High Met Lung (lib8)	2
1157	High Met Lung (lib8) > Low Met Lung (lib9)	5
1157	High Met Breast (lib3) > Low Met Breast (lib4)	3
1185	Normal Colon Tumor Tissue (lib16) > High Met Colon Tissue (lib17)	4
1185	High Met Lung (lib8) > Low Met Lung (lib9)	4
1185	Low Met Breast (lib4) > High Met Breast (lib3)	3
1213	High Met Breast (lib3) > Low Met Breast (lib4)	39
1213	Prostate Cancer (lib22) > Normal Prostate (lib21)	35
1213	Low Met Colon (lib2) > High Met Colon (lib1)	3
1251	High Met Breast (lib3) > Low Met Breast (lib4)	6
1251	Low Met Colon (lib2) > High Met Colon (lib1)	9
1311	Normal Colon Tumor Tissue (lib16) > Normal Colon Tissue (lib15)	8

SEQ ID NO:	Cell or Tissue Sample and Cancer State Compared	Ratio
1311	High Met Colon Tissue (lib17) > Normal Colon Tissue (lib15)	7
1525	Normal Prostate (lib21) > Prostate Cancer (lib22)	6
1525	High Met Lung (lib8) > Low Met Lung (lib9)	3
1525	High Met Breast (lib3) > Low Met Breast (lib4)	3
1538	High Met Breast (lib3) > Low Met Breast (lib4)	20
1538	HMEC-VEGF (lib14) > HMEC (lib12)	2
1538	HMEC-bFGF (lib13) > HMEC (lib12)	2

Key for Table 19: High Met = high metastatic potential; Low Met = low metastatic potential; met = metastasized; tumor = non-metastasized tumor; HMEC = human microvascular endothelial cell; bFGF = bFGF treated; VEGF = VEGF treated.

5 **Example 14: Identification of Contiguous Sequences Having a Polynucleotide of the Invention**

The novel polynucleotides were used to screen publicly available and proprietary databases to determine if any of the polynucleotides of SEQ ID NOS:2611-2707 would facilitate identification of a contiguous sequence, e.g., the polynucleotides would provide sequence that would result in 5' extension of another DNA sequence, resulting in production of a longer contiguous sequence composed of the provided polynucleotide and the other DNA sequence(s). Contigging was performed using the Gelmerge application (default settings) of GCG from the Univ. of Wisconsin.

Using these parameters, 97 contigged sequences were generated. These contigged sequences are provided as SEQ ID NOS:2611-2707 (see Table 1C). Table 1C provides the SEQ ID NO of the contig sequence, the name of the sequence used to create the contig, and the accession number of the publicly available tentative human consensus (THC) sequence used with the sequence of the corresponding sequence name to provide the contig. The sequence name of Table 1C can be correlated with the SEQ ID NO: of the polynucleotide of the invention using Tables 1A and 1B.

The contigged sequences (SEQ ID NOS:2611-2707) thus represent longer sequences that encompass a polynucleotide sequence of the invention. The contigged sequences were then translated in all three reading frames to determine the best alignment with individual sequences using the BLAST programs as described above. The sequences were masked using the XBLAST program for masking low complexity as described above in Example 1. Several of the contigged sequences were found to encode polypeptides having characteristics of a polypeptide belonging to a known protein families (and thus represent new members of these protein families) and/or comprising a known functional domain (Table 3B, inserted prior to claims). Thus the invention encompasses fragments, fusions, and variants of such polynucleotides that retain biological activity associated with the protein family and/or functional domain identified herein.

Descriptions of the profiles for the indicated protein families and functional domains are provided in Example 3 above. A description of the profile for PR55 is provided below.

Protein Phosphatase 2A Regulatory Subunit PR55 (PR55). Several of the contigs correspond to a sequence encoding a protein comprising a protein phosphatase 2A (PP2A) regulatory subunit PR55. PP2A is a serine/threonine phosphatase involved in many aspects of cellular function including the regulation of metabolic enzymes and proteins involved in signal transduction. PP2A is a trimeric enzyme comprising a core composed of a catalytic subunit associated with a 65 Kd regulatory subunit (PR65, also called subunit A). This complex associates with a third variable subunit (subunit B), which confers distinct properties to the holoenzyme (Mayer-Jaekel et al. *Trends Cell Biol.* (1994) 4:287-291). One of the forms of the variable subunit is a 55 Kd protein (PR55) which is highly conserved in mammals and may facilitate substrate recognition or targeting the enzyme complex to the appropriate subcellular compartment. The PR55 subunit comprises two conserved sequences of 15 residues: one located in the N-terminal region, the other in the center of the protein. The consensus patterns are: E-F-D-Y-L-K-S-L-E-I-E-E-K-I-N; and N-[AG]-H-[TA]-Y-H-I-N-S-I-S-[LIVM]-N-S-D.

Those skilled in the art will recognize, or be able to ascertain, using not more than routine experimentation, many equivalents to the specific embodiments of the invention described herein. Such specific embodiments and equivalents are intended to be encompassed by the following claims.

All publications and patent applications cited in this specification are herein incorporated by reference as if each individual publication or patent application were specifically and individually indicated to be incorporated by reference. The citation of any publication is for its disclosure prior to the filing date and should not be construed as an admission that the present invention is not entitled to antedate such publication by virtue of prior invention.

Although the foregoing invention has been described in some detail by way of illustration and example for purposes of clarity of understanding, it is readily apparent to those of ordinary skill in the art in light of the teachings of this invention that certain changes and modifications may be made thereto without departing from the spirit or scope of the appended claims.

Deposit Information. The following materials were deposited with the American Type Culture Collection (CMCC = Chiron Master Culture Collection).

Table 20. Cell Lines Deposited with ATCC

Cell Line	Deposit Date	ATCC Accession No.	CMCC Accession No.
KM12L4-A	March 19, 1998	CRL-12496	11606
Km12C	May 15, 1998	CRL-12533	11611
MDA-MB-231	May 15, 1998	CRL-12532	10583
MCF-7	October 9, 1998	CRL-12584	10377

In addition, pools of selected clones, as well as libraries containing specific clones, were assigned an "ES" number (internal reference) and deposited with the ATCC. Table 21 below provides the ATCC Accession Nos. of the ES deposits, all of which were deposited on or before May 13, 1999. The names of the clones contained within each of these deposits are provided in the tables numbered 22 and greater (inserted before the claims).

Table 21: Pools of Clones and Libraries Deposited with ATCC on or before May 14, 1999

ES #	ATCC Accession #	ES #	ATCC Accession #	ES #	ATCC Accession #
34		41		48	
35		42		49	
36		43		50	
37		44		51	
38		45		52	
39		46		53	
40		47		54	

The deposits described herein are provided merely as convenience to those of skill in the art, and is not an admission that a deposit is required under 35 U.S.C. §112. The sequence of the polynucleotides contained within the deposited material, as well as the amino acid sequence of the polypeptides encoded thereby, are incorporated herein by reference and are controlling in the event of any conflict with the written description of sequences herein. A license may be required to make, use, or sell the deposited material, and no such license is granted hereby.

Retrieval of Individual Clones from Deposit of Pooled Clones. Where the ATCC deposit is composed of a pool of cDNA clones or a library of cDNA clones, the deposit was prepared by first transfecting each of the clones into separate bacterial cells. The clones in the pool or library were then deposited as a pool of equal mixtures in the composite deposit. Particular clones can be obtained from the composite deposit using methods well known in the art. For example, a bacterial cell containing a particular clone can be identified by isolating single colonies, and identifying colonies containing the specific clone through standard colony hybridization techniques, using an oligonucleotide probe or probes designed to specifically hybridize to a sequence of the clone insert (*e.g.*, a probe based upon unmasked sequence of the encoded polynucleotide having the indicated SEQ ID NO). The probe should be designed to have a T_m of approximately 80°C (assuming 2°C for each A or T and 4°C for each G or C). Positive colonies can then be picked, grown in culture, and the recombinant clone isolated. Alternatively, probes designed in this manner can be used to PCR to isolate a nucleic acid molecule from the pooled clones according to methods well known in the art, *e.g.*, by purifying the cDNA from the deposited culture pool, and using the probes in PCR reactions to produce an amplified product having the corresponding desired polynucleotide sequence.

Table 1A

Priority Appln Information					
SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
1	5/14/98	1487	1	RTA00000608F.d.17.1	M00003981C:E04
2	5/14/98	1487	2	RTA00000589F.n.08.1	M00004182D:H03
3	5/14/98	1487	3	RTA00000589F.p.06.1	M00004223D:D07
4	5/14/98	1487	4	RTA00000597F.b.03.4	M00003770D:C07
5	5/14/98	1487	5	RTA00000608F.k.12.1	M00004029A:E01
6	5/14/98	1487	6	RTA00000585F.h.08.2	M00001432B:H08
7	5/14/98	1487	7	RTA00000585F.h.14.2	M00001433A:C07
8	5/14/98	1487	8	RTA00000609F.f.01.3	M00004060C:A02
9	5/14/98	1487	9	RTA00000588F.j.01.3	M00003835A:E03
10	5/14/98	1487	10	RTA00000596F.b.19.1	M00001663C:C03
11	5/14/98	1487	11	RTA00000585F.m.18.1	M00001444A:A09
12	5/14/98	1487	12	RTA00000596F.m.11.1	M00003753C:B01
13	5/14/98	1487	13	RTA00000589F.k.05.1	M00004133C:B02
14	5/14/98	1487	14	RTA00000589F.a.18.2	M00003984C:F04
15	5/14/98	1487	15	RTA00000585F.g.19.2	M00001431A:E05
16	5/14/98	1487	16	RTA00000595F.c.21.1	M00001598C:D10
17	5/14/98	1487	17	RTA00000584F.n.20.1	M00001406C:A11
18	5/14/98	1487	18	RTA00000611F.o.18.5	M00004204A:D04
19	5/14/98	1487	19	RTA00000597F.f.23.1	M00003787D:A06
20	5/14/98	1487	20	RTA00000585F.p.13.2	M00001452B:H06
21	5/14/98	1487	21	RTA00000583F.f.06.1	M00001348D:H08
22	5/14/98	1487	22	RTA00000585F.h.08.1	M00001432B:H08
23	5/14/98	1487	23	RTA00000589F.n.10.1	M00004184B:F11
24	5/14/98	1487	24	RTA00000614F.k.01.1	M00004465C:B12
25	5/14/98	1487	25	RTA00000587F.p.24.1	M00001584C:A03
26	5/14/98	1487	26	RTA00000587F.g.19.2	M00001548C:A09
27	5/14/98	1487	27	RTA00000612F.c.12.2	M00004222A:H10
28	5/14/98	1487	28	RTA00000589F.f.09.1	M00004064A:B12
29	5/14/98	1487	29	RTA00000586F.k.02.1	M00001490B:G04
30	5/14/98	1487	30	RTA00000609F.b.20.2	M00004050A:F02
31	5/14/98	1487	31	RTA00000584F.m.13.1	M00001402D:C07
32	5/14/98	1487	32	RTA00000614F.i.12.1	M00004447D:D10
33	5/14/98	1487	33	RTA00000608F.m.14.1	M00004035A:A10
34	5/14/98	1487	34	RTA00000608F.m.01.1	M00004033C:D10
35	5/14/98	1487	35	RTA00000597F.o.18.1	M00003819C:E04
36	5/14/98	1487	36	RTA00000584F.g.06.1	M00001390A:C06
37	5/14/98	1487	37	RTA00000609F.a.07.2	M00004046A:F04
38	5/14/98	1487	38	RTA00000607F.o.12.2	M00003961C:G02
39	5/14/98	1487	39	RTA00000597F.p.17.1	M00003821C:E04

Priority Appln Information

SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
40	5/14/98	1487	40	RTA00000609F.f.16.3	M00004063C:B11
41	5/14/98	1487	41	RTA00000584F.o.04.1	M00001407B:A08
42	5/14/98	1487	42	RTA00000608F.d.21.1	M00003982A:G03
43	5/14/98	1487	43	RTA00000614F.b.23.1	M00004389C:E01
44	5/14/98	1487	44	RTA00000612F.l.04.1	M00004268C:F08
45	5/14/98	1487	45	RTA00000611F.n.20.3	M00004200D:A07
46	5/14/98	1487	46	RTA00000608F.e.01.1	M00003982B:C10
47	5/14/98	1487	47	RTA00000585F.k.21.1	M00001439C:G06
48	5/14/98	1487	48	RTA00000589F.d.07.1	M00004037B:A09
49	5/14/98	1487	49	RTA00000614F.j.07.1	M00004460B:H09
50	5/14/98	1487	50	RTA00000614F.o.08.1	M00004508B:G02
51	5/14/98	1487	51	RTA00000608F.e.11.1	M00003983C:E07
52	5/14/98	1487	52	RTA00000589F.d.08.1	M00004037B:B05
53	5/14/98	1487	53	RTA00000614F.l.09.1	M00004491D:D07
54	5/14/98	1487	54	RTA00000607F.m.15.1	M00003949B:D05
55	5/14/98	1487	55	RTA00000609F.p.17.1	M00004093D:D09
56	5/14/98	1487	56	RTA00000583F.d.22.1	M00001346B:G03
57	5/14/98	1487	57	RTA00000589F.h.07.1	M00004081B:C11
58	5/14/98	1487	58	RTA00000611F.k.19.3	M00004191B:G01
59	5/14/98	1487	59	RTA00000595F.p.10.1	M00001654D:F06
60	5/14/98	1487	60	RTA00000609F.h.01.1	M00004068D:B01
61	5/14/98	1487	61	RTA00000612F.g.24.2	M00004244B:A02
62	5/14/98	1487	62	RTA00000608F.b.10.1	M00003975B:H09
63	5/14/98	1487	63	RTA00000587F.i.12.1	M00001555D:F11
64	5/14/98	1487	64	RTA00000610F.p.02.1	M00004152C:E01
65	5/14/98	1487	65	RTA00000608F.f.15.2	M00003987A:C07
66	5/14/98	1487	66	RTA00000614F.k.11.1	M00004467D:F09
67	5/14/98	1487	67	RTA00000612F.b.10.2	M00004216D:E10
68	5/14/98	1487	68	RTA00000606F.k.11.1	M00003864B:A04
69	5/14/98	1487	69	RTA00000583F.g.18.1	M00001352C:E01
70	5/14/98	1487	70	RTA00000585F.i.13.1	M00001435A:F03
71	5/14/98	1487	71	RTA00000612F.g.11.2	M00004240D:A07
72	5/14/98	1487	72	RTA00000607F.l.05.1	M00003936C:F10
73	5/14/98	1487	73	RTA00000610F.a.11.1	M00004097C:A03
74	5/14/98	1487	74	RTA00000596F.k.09.1	M00003746B:E12
75	5/14/98	1487	75	RTA00000611F.d.11.1	M00004169A:B11
76	5/14/98	1487	76	RTA00000588F.g.06.1	M00003797D:E10
77	5/14/98	1487	77	RTA00000595F.n.15.1	M00001648C:F06
78	5/14/98	1487	78	RTA00000584F.c.22.1	M00001382C:C09
79	5/14/98	1487	79	RTA00000585F.l.17.1	M00001441D:H05

Priority Appln Information

SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
80	5/14/98	1487	80	RTA00000608F.k.15.2	M00004029C:B03
81	5/14/98	1487	81	RTA00000597F.g.14.1	M00003789C:E03
82	5/14/98	1487	82	RTA00000588F.n.16.3	M00003906C:H12
83	5/14/98	1487	83	RTA00000606F.o.14.1	M00003886C:D10
84	5/14/98	1487	84	RTA00000608F.n.09.1	M00004037A:A07
85	5/14/98	1487	85	RTA00000613F.h.06.1	M00004329C:F11
86	5/14/98	1487	86	RTA00000587F.l.08.1	M00001564C:D04
87	5/14/98	1487	87	RTA00000590F.d.23.1	M00004350B:F06
88	5/14/98	1487	88	RTA00000609F.i.24.2	M00004073D:E01
89	5/14/98	1487	89	RTA00000614F.j.23.1	M00004465C:B10
90	5/14/98	1487	90	RTA00000587F.p.15.1	M00001582D:B10
91	5/14/98	1487	91	RTA00000640F.a.05.1	M00004190A:A09
92	5/14/98	1487	92	RTA00000609F.k.01.2	M00004077D:D10
93	5/14/98	1487	93	RTA00000589F.e.14.2	M00004054D:D02
94	5/14/98	1487	94	RTA00000586F.a.13.1	M00001455A:E09
95	5/14/98	1487	95	RTA00000590F.d.10.1	M00004337D:G08
96	5/14/98	1487	96	RTA00000608F.i.18.1	M00003998A:D03
97	5/14/98	1487	97	RTA00000608F.m.05.1	M00004034A:E08
98	5/14/98	1487	98	RTA00000597F.p.10.1	M00003820D:E02
99	5/14/98	1487	99	RTA00000585F.n.20.1	M00001446D:B10
100	5/14/98	1487	100	RTA00000584F.a.14.1	M00001377A:D03
101	5/14/98	1487	101	RTA00000609F.p.03.2	M00004092A:C03
102	5/14/98	1487	102	RTA00000606F.f.06.1	M00003841A:E09
103	5/14/98	1487	103	RTA00000609F.o.22.1	M00004091D:D09
104	5/14/98	1487	104	RTA00000587F.d.02.1	M00001537B:C12
105	5/14/98	1487	105	RTA00000612F.n.07.2	M00004277C:H11
106	5/14/98	1487	106	RTA00000606F.p.03.1	M00003888C:E01
107	5/14/98	1487	107	RTA00000589F.g.15.1	M00004076D:B03
108	5/14/98	1487	108	RTA00000610F.b.09.1	M00004102C:F07
109	5/14/98	1487	109	RTA00000603F.a.13.1	M00003820C:A09
110	5/14/98	1487	110	RTA00000606F.o.01.1	M00003883D:C03
111	5/14/98	1487	111	RTA00000589F.c.17.1	M00004030B:C05
112	5/14/98	1487	112	RTA00000589F.k.22.1	M00004140B:B01
113	5/14/98	1487	113	RTA00000585F.k.08.1	M00001438C:H05
114	5/14/98	1487	114	RTA00000595F.a.09.1	M00001586A:F09
115	5/14/98	1487	115	RTA00000597F.g.22.1	M00003790B:F12
116	5/14/98	1487	116	RTA00000597F.c.02.3	M00003773A:C09
117	5/14/98	1487	117	RTA00000587F.b.18.1	M00001530A:D11
118	5/14/98	1487	118	RTA00000606F.a.18.1	M00003824B:D06
119	5/14/98	1487	119	RTA00000612F.j.14.2	M00004260A:B07

Priority Appln Information

SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
120	5/14/98	1487	120	RTA00000612F.g.23.3	M00004243C:E10
121	5/14/98	1487	121	RTA00000583F.p.05.1	M00001374C:C09
122	5/14/98	1487	122	RTA00000586F.a.12.1	M00001455A:C03
123	5/14/98	1487	123	RTA00000613F.d.21.1	M00004308A:E06
124	5/14/98	1487	124	RTA00000586F.e.02.2	M00001466C:F02
125	5/14/98	1487	125	RTA00000595F.f.07.1	M00001609A:B12
126	5/14/98	1487	126	RTA00000607F.o.13.2	M00003962B:B09
127	5/14/98	1487	127	RTA00000595F.b.06.1	M00001590D:A07
128	5/14/98	1487	128	RTA00000609F.l.04.2	M00004081C:A01
129	5/14/98	1487	129	RTA00000610F.b.08.1	M00004102B:B04
130	5/14/98	1487	130	RTA00000585F.k.06.1	M00001438B:H06
131	5/14/98	1487	131	RTA00000611F.o.20.5	M00004204B:A04
132	5/14/98	1487	132	RTA00000614F.g.09.1	M00004421A:G04
133	5/14/98	1487	133	RTA00000597F.h.12.1	M00003793C:D11
134	5/14/98	1487	134	RTA00000597F.p.21.1	M00003822A:G05
135	5/14/98	1487	135	RTA00000595F.l.24.2	M00001641B:G05
136	5/14/98	1487	136	RTA00000584F.l.05.1	M00001399C:E10
137	5/14/98	1487	137	RTA00000586F.j.16.1	M00001489B:F08
138	5/14/98	1487	138	RTA00000613F.h.20.1	M00004332B:E11
139	5/14/98	1487	139	RTA00000606F.k.06.1	M00003862C:H10
140	5/14/98	1487	140	RTA00000587F.j.01.1	M00001557C:B08
141	5/14/98	1487	141	RTA00000610F.l.23.1	M00004143A:H07
142	5/14/98	1487	142	RTA00000606F.j.21.1	M00003860B:A07
143	5/14/98	1487	143	RTA00000608F.i.15.1	M00003997D:D07
144	5/14/98	1487	144	RTA00000596F.o.21.1	M00003763D:F06
145	5/14/98	1487	145	RTA00000597F.l.05.1	M00003809B:D08
146	5/14/98	1487	146	RTA00000608F.h.04.1	M00003992D:G01
147	5/14/98	1487	147	RTA00000585F.d.21.1	M00001424A:H09
148	5/14/98	1487	148	RTA00000606F.k.15.1	M00003864C:D09
149	5/14/98	1487	149	RTA00000612F.k.16.2	M00004266A:F10
150	5/14/98	1487	150	RTA00000589F.b.14.1	M00003991B:B05
151	5/14/98	1487	151	RTA00000597F.m.17.1	M00003813D:A06
152	5/14/98	1487	152	RTA00000585F.k.14.1	M00001439B:E02
153	5/14/98	1487	153	RTA00000584F.f.21.1	M00001389B:B06
154	5/14/98	1487	154	RTA00000597F.i.09.1	M00003796C:H03
155	5/14/98	1487	155	RTA00000597F.h.20.1	M00003795A:B01
156	5/14/98	1487	156	RTA00000608F.k.24.1	M00004030B:B02
157	5/14/98	1487	157	RTA00000586F.n.05.1	M00001500B:H07
158	5/14/98	1487	158	RTA00000608F.n.02.1	M00004035D:E04
159	5/14/98	1487	159	RTA00000585F.e.11.2	M00001425C:E10

Priority Appln Information

SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
160	5/14/98	1487	160	RTA00000596F.k.08.1	M00003746A:E01
161	5/14/98	1487	161	RTA00000611F.b.14.1	M00004163A:D11
162	5/14/98	1487	162	RTA00000607F.m.10.1	M00003948B:B03
163	5/14/98	1487	163	RTA00000586F.p.01.1	M00001506A:F01
164	5/14/98	1487	164	RTA00000589F.g.08.1	M00004075C:C09
165	5/14/98	1487	165	RTA00000608F.n.19.1	M00004037D:B05
166	5/14/98	1487	166	RTA00000607F.c.16.2	M00003905C:B01
167	5/14/98	1487	167	RTA00000595F.i.09.1	M00001622C:F06
168	5/14/98	1487	168	RTA00000584F.j.10.1	M00001397B:E02
169	5/14/98	1487	169	RTA00000589F.i.13.1	M00004103B:C07
170	5/14/98	1487	170	RTA00000585F.f.04.2	M00001427A:C05
171	5/14/98	1487	171	RTA00000606F.d.24.1	M00003837C:F05
172	5/14/98	1487	172	RTA00000609F.n.22.1	M00004088A:F12
173	5/14/98	1487	173	RTA00000610F.m.14.1	M00004144D:B06
174	5/14/98	1487	174	RTA00000606F.k.17.1	M00003864D:G05
175	5/14/98	1487	175	RTA00000583F.d.06.1	M00001345A:A12
176	5/14/98	1487	176	RTA00000608F.m.09.1	M00004034C:F05
177	5/14/98	1487	177	RTA00000608F.o.17.1	M00004040D:B05
178	5/14/98	1487	178	RTA00000583F.k.15.3	M00001362B:H09
179	5/14/98	1487	179	RTA00000610F.f.16.1	M00004120A:C02
180	5/14/98	1487	180	RTA00000608F.h.19.2	M00003994C:C11
181	5/14/98	1487	181	RTA00000584F.m.07.1	M00001401D:D04
182	5/14/98	1487	182	RTA00000587F.h.20.2	M00001552B:D01
183	5/14/98	1487	183	RTA00000596F.b.01.1	M00001660A:F10
184	5/14/98	1487	184	RTA00000611F.n.13.2	M00004199D:C02
185	5/14/98	1487	185	RTA00000597F.o.06.1	M00003818A:F09
186	5/14/98	1487	186	RTA00000589F.n.03.1	M00004178B:F06
187	5/14/98	1487	187	RTA00000597F.k.07.1	M00003805A:G05
188	5/14/98	1487	188	RTA00000611F.c.19.2	M00004166B:E10
189	5/14/98	1487	189	RTA00000606F.l.12.1	M00003868D:F02
190	5/14/98	1487	190	RTA00000614F.d.22.1	M00004407D:B09
191	5/14/98	1487	191	RTA00000608F.n.16.1	M00004037C:D07
192	5/14/98	1487	192	RTA00000595F.l.20.2	M00001640D:C10
193	5/14/98	1487	193	RTA00000608F.k.22.1	M00004030A:E09
194	5/14/98	1487	194	RTA00000583F.h.23.1	M00001355B:A01
195	5/14/98	1487	195	RTA00000608F.c.23.1	M00003980C:A11
196	5/14/98	1487	196	RTA00000585F.n.01.1	M00001444A:G12
197	5/14/98	1487	197	RTA00000596F.n.08.1	M00003756C:C08
198	5/14/98	1487	198	RTA00000612F.d.16.2	M00004229C:G11
199	5/14/98	1487	199	RTA00000589F.c.19.1	M00004031A:B04

Priority Appln Information					
SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
200	5/14/98	1487	200	RTA00000584F.j.08.1	M00001397A:F10
201	5/14/98	1487	201	RTA00000583F.j.03.3	M00001358D:D09
202	5/14/98	1487	202	RTA00000597F.j.09.1	M00003801D:F05
203	5/14/98	1487	203	RTA00000614F.n.21.1	M00004506C:H10
204	5/14/98	1487	204	RTA00000606F.d.05.1	M00003833B:A11
205	5/14/98	1487	205	RTA00000589F.d.10.1	M00004038C:D12
206	5/14/98	1487	206	RTA00000597F.p.01.1	M00003820A:H04
207	5/14/98	1487	207	RTA00000586F.l.20.1	M00001496A:B03
208	5/14/98	1487	208	RTA00000607F.c.07.2	M00003903C:A12
209	5/14/98	1487	209	RTA00000595F.b.02.1	M00001589C:D12
210	5/14/98	1487	210	RTA00000597F.n.18.1	M00003816C:F10
211	5/14/98	1487	211	RTA00000612F.d.10.2	M00004228C:D11
212	5/14/98	1487	212	RTA00000609F.n.13.1	M00004086D:A07
213	5/14/98	1487	213	RTA00000610F.b.02.1	M00004101D:A03
214	5/14/98	1487	214	RTA00000590F.a.17.1	M00004249C:E12
215	5/14/98	1487	215	RTA00000587F.i.02.1	M00001553D:B06
216	5/14/98	1487	216	RTA00000583F.p.22.1	M00001376A:H02
217	5/14/98	1487	217	RTA00000609F.d.08.1	M00004054D:A03
218	5/14/98	1487	218	RTA00000609F.k.06.2	M00004078C:A08
219	5/14/98	1487	219	RTA00000585F.i.20.1	M00001435B:G10
220	5/14/98	1487	220	RTA00000585F.e.15.2	M00001426A:F09
221	5/14/98	1487	221	RTA00000595F.c.18.1	M00001597C:B03
222	5/14/98	1487	222	RTA00000596F.p.18.1	M00003766A:G09
223	5/14/98	1487	223	RTA00000611F.l.04.3	M00004193A:C07
224	5/14/98	1487	224	RTA00000614F.o.06.1	M00004508A:G12
225	5/14/98	1487	225	RTA00000586F.o.13.1	M00001504D:D09
226	5/14/98	1487	226	RTA00000612F.o.21.1	M00004283C:D03
227	5/14/98	1487	227	RTA00000585F.k.18.1	M00001439C:A01
228	5/14/98	1487	228	RTA00000611F.o.19.5	M00004204A:D10
229	5/14/98	1487	229	RTA00000611F.l.10.3	M00004193C:H01
230	5/14/98	1487	230	RTA00000612F.b.22.2	M00004217D:G10
231	5/14/98	1487	231	RTA00000583F.n.06.1	M00001370B:B12
232	5/14/98	1487	232	RTA00000611F.p.08.3	M00004206C:G11
233	5/14/98	1487	233	RTA00000607F.e.03.2	M00003909D:G01
234	5/14/98	1487	234	RTA00000607F.b.09.2	M00003896D:B01
235	5/14/98	1487	235	RTA00000585F.j.16.1	M00001436D:C10
236	5/14/98	1487	236	RTA00000607F.g.05.2	M00003915C:G01
237	5/14/98	1487	237	RTA00000586F.o.14.1	M00001505A:E09
238	5/14/98	1487	238	RTA00000607F.h.15.1	M00003920B:A10
239	5/14/98	1487	239	RTA00000586F.m.14.1	M00001499B:H05

Priority Appln Information

SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
240	5/14/98	1487	240	RTA00000610F.p.17.1	M00004154D:F11
241	5/14/98	1487	241	RTA00000584F.d.11.1	M00001383C:C07
242	5/14/98	1487	242	RTA00000610F.e.07.1	M00004114C:F02
243	5/14/98	1487	243	RTA00000610F.b.17.1	M00004103B:C09
244	5/14/98	1487	244	RTA00000596F.c.05.1	M00001669A:H11
245	5/14/98	1487	245	RTA00000586F.b.17.1	M00001458B:F06
246	5/14/98	1487	246	RTA00000607F.l.16.1	M00003939A:A02
247	5/14/98	1487	247	RTA00000590F.f.18.2	M00004446A:G01
248	5/14/98	1487	248	RTA00000603F.b.07.1	M00004242C:C01
249	5/14/98	1487	249	RTA00000589F.f.11.1	M00004066A:E12
250	5/14/98	1487	250	RTA00000589F.j.09.1	M00004115A:G09
251	5/14/98	1487	251	RTA00000583F.a.18.1	M00001339B:E05
252	5/14/98	1487	252	RTA00000612F.f.23.3	M00004239C:C09
253	5/14/98	1487	253	RTA00000597F.o.12.1	M00003818C:E09
254	5/14/98	1487	254	RTA00000607F.b.05.2	M00003896B:F08
255	5/14/98	1487	255	RTA00000607F.e.23.2	M00003912C:C11
256	5/14/98	1487	256	RTA00000586F.m.11.1	M00001499A:D05
257	5/14/98	1487	257	RTA00000585F.g.18.2	M00001431A:C10
258	5/14/98	1487	258	RTA00000614F.d.07.1	M00004403A:B05
259	5/14/98	1487	259	RTA00000606F.c.23.1	M00003832B:G03
260	5/14/98	1487	260	RTA00000609F.d.13.1	M00004055B:F06
261	5/14/98	1487	261	RTA00000606F.c.04.1	M00003829A:E02
262	5/14/98	1487	262	RTA00000587F.f.02.1	M00001542C:F06
263	5/14/98	1487	263	RTA00000585F.e.14.2	M00001426A:C02
264	5/14/98	1487	264	RTA00000584F.o.03.2	M00001406D:H01
265	5/14/98	1487	265	RTA00000614F.m.24.1	M00004501A:G06
266	5/14/98	1487	266	RTA00000586F.j.21.1	M00001489D:C08
267	5/14/98	1487	267	RTA00000585F.d.02.2	M00001421C:A03
268	5/14/98	1487	268	RTA00000597F.o.19.1	M00003819D:G09
269	5/14/98	1487	269	RTA00000613F.h.02.1	M00004328A:H06
270	5/14/98	1487	270	RTA00000612F.m.08.2	M00004273D:E11
271	5/14/98	1487	271	RTA00000606F.g.04.1	M00003844C:H05
272	5/14/98	1487	272	RTA00000608F.h.04.2	M00003992D:G01
273	5/14/98	1487	273	RTA00000609F.c.19.3	M00004059A:G09
274	5/14/98	1487	274	RTA00000613F.c.10.1	M00004297D:B08
275	5/14/98	1487	275	RTA00000587F.d.24.1	M00001539B:B01
276	5/14/98	1487	276	RTA00000597F.a.22.5	M00003769D:G12
277	5/14/98	1487	277	RTA00000595F.m.11.1	M00001644D:F09
278	5/14/98	1487	278	RTA00000613F.k.05.1	M00004346B:D06
279	5/14/98	1487	279	RTA00000611F.n.15.2	M00004200A:G06

Priority Appln Information

SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
280	5/14/98	1487	280	RTA00000609F.m.20.2	M00004085B:G06
281	5/14/98	1487	281	RTA00000609F.c.08.1	M00004051C:D10
282	5/14/98	1487	282	RTA00000586F.k.13.1	M00001491C:C01
283	5/14/98	1487	283	RTA00000595F.i.16.1	M00001623D:A09
284	5/14/98	1487	284	RTA00000588F.j.17.3	M00003839D:G06
285	5/14/98	1487	285	RTA00000610F.i.05.1	M00004129A:H08
286	5/14/98	1487	286	RTA00000596F.o.14.1	M00003762A:D11
287	5/14/98	1487	287	RTA00000583F.e.15.1	M00001347B:H01
288	5/14/98	1487	288	RTA00000584F.a.01.2	M00001376B:C11
289	5/14/98	1487	289	RTA00000597F.c.10.4	M00003773D:C02
290	5/14/98	1487	290	RTA00000595F.d.20.1	M00001604B:D09
291	5/14/98	1487	291	RTA00000609F.m.04.2	M00004084A:D11
292	5/14/98	1487	292	RTA00000589F.b.08.1	M00003988C:A06
293	5/14/98	1487	293	RTA00000583F.k.13.3	M00001362B:A09
294	5/14/98	1487	294	RTA00000606F.b.07.1	M00003825C:B02
295	5/14/98	1487	295	RTA00000583F.a.17.1	M00001339B:A03
296	5/14/98	1487	296	RTA00000611F.o.09.5	M00004201D:E12
297	5/14/98	1487	297	RTA00000610F.j.15.1	M00004134C:B11
298	5/14/98	1487	298	RTA00000608F.e.21.1	M00003985A:C01
299	5/14/98	1487	299	RTA00000614F.k.08.1	M00004467A:F09
300	5/14/98	1487	300	RTA00000610F.p.11.1	M00004153D:E06
301	5/14/98	1487	301	RTA00000595F.l.14.1	M00001639A:A04
302	5/14/98	1487	302	RTA00000596F.m.03.1	M00003752A:B06
303	5/14/98	1487	303	RTA00000595F.n.06.2	M00001647C:C07
304	5/14/98	1487	304	RTA00000596F.e.22.2	M00001679C:F03
305	5/14/98	1487	305	RTA00000607F.c.18.2	M00003905C:E10
306	5/14/98	1487	306	RTA00000597F.o.15.1	M00003819A:B09
307	5/14/98	1487	307	RTA00000584F.f.10.1	M00001387D:C07
308	5/14/98	1487	308	RTA00000597F.b.07.5	M00003771A:G09
309	5/14/98	1487	309	RTA00000584F.m.17.1	M00001403B:A01
310	5/14/98	1487	310	RTA00000608F.g.08.2	M00003989C:F01
311	5/14/98	1487	311	RTA00000587F.o.03.1	M00001575A:H02
312	5/14/98	1487	312	RTA00000597F.m.10.1	M00003812D:E08
313	5/14/98	1487	313	RTA00000596F.l.10.1	M00003749D:G07
314	5/14/98	1487	314	RTA00000584F.h.08.1	M00001391D:A07
315	5/14/98	1487	315	RTA00000587F.f.07.1	M00001543A:F01
316	5/14/98	1487	316	RTA00000595F.b.04.1	M00001589D:G10
317	5/14/98	1487	317	RTA00000590F.d.17.1	M00004345A:H06
318	5/14/98	1487	318	RTA00000612F.l.07.2	M00004268D:G07
319	5/14/98	1487	319	RTA00000607F.e.15.2	M00003911C:G05

Priority Appln Information

SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
320	5/14/98	1487	320	RTA00000614F.i.23.1	M00004449D:H01
321	5/14/98	1487	321	RTA00000612F.l.08.2	M00004269A:B11
322	5/14/98	1487	322	RTA00000608F.n.23.1	M00004038C:C05
323	5/14/98	1487	323	RTA00000583F.e.11.1	M00001347A:G06
324	5/14/98	1487	324	RTA00000612F.e.10.3	M00004234B:E03
325	5/14/98	1487	325	RTA00000609F.o.20.1	M00004091C:F04
326	5/14/98	1487	326	RTA00000583F.d.19.1	M00001346B:A07
327	5/14/98	1487	327	RTA00000609F.o.16.2	M00004091B:C12
328	5/14/98	1487	328	RTA00000586F.a.23.1	M00001456C:F02
329	5/14/98	1487	329	RTA00000583F.j.04.3	M00001359A:B07
330	5/14/98	1487	330	RTA00000585F.a.02.3	M00001412D:C03
331	5/14/98	1487	331	RTA00000606F.o.02.1	M00003884B:E06
332	5/14/98	1487	332	RTA00000609F.m.09.2	M00004084C:G04
333	5/14/98	1487	333	RTA00000606F.b.10.1	M00003826B:D01
334	5/14/98	1487	334	RTA00000596F.k.19.1	M00003748B:B06
335	5/14/98	1487	335	RTA00000596F.o.17.1	M00003763B:D03
336	5/14/98	1487	336	RTA00000611F.g.23.1	M00004180B:F04
337	5/14/98	1487	337	RTA00000586F.m.05.1	M00001496D:D02
338	5/14/98	1487	338	RTA00000612F.n.03.2	M00004277B:C06
339	5/14/98	1487	339	RTA00000585F.b.18.3	M00001417B:E01
340	5/14/98	1487	340	RTA00000606F.b.03.1	M00003825B:A05
341	5/14/98	1487	341	RTA00000583F.n.05.1	M00001370B:B04
342	5/14/98	1487	342	RTA00000607F.o.10.2	M00003961B:A12
343	5/14/98	1487	343	RTA00000613F.c.13.1	M00004297D:E08
344	5/14/98	1487	344	RTA00000595F.f.14.1	M00001610B:A01
345	5/14/98	1487	345	RTA00000608F.a.10.3	M00003973A:C05
346	5/14/98	1487	346	RTA00000609F.j.05.3	M00004075A:G10
347	5/14/98	1487	347	RTA00000586F.d.01.1	M00001463C:A01
348	5/14/98	1487	348	RTA00000612F.h.03.3	M00004245A:G09
349	5/14/98	1487	349	RTA00000596F.e.18.2	M00001678D:A12
350	5/14/98	1487	350	RTA00000606F.g.18.1	M00003846B:H02
351	5/14/98	1487	351	RTA00000597F.c.07.4	M00003773B:G08
352	5/14/98	1487	352	RTA00000610F.e.15.1	M00004117B:F01
353	5/14/98	1487	353	RTA00000595F.h.07.1	M00001618C:E06
354	5/14/98	1487	354	RTA00000597F.f.17.1	M00003786D:C06
355	5/14/98	1487	355	RTA00000606F.l.10.1	M00003868B:C07
356	5/14/98	1487	356	RTA00000586F.g.20.1	M00001478A:B06
357	5/14/98	1487	357	RTA00000606F.b.05.1	M00003825B:D12
358	5/14/98	1487	358	RTA00000588F.p.09.2	M00003972B:A11
359	5/14/98	1487	359	RTA00000595F.d.05.1	M00001599A:H09

Priority Appln Information					
SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
360	5/14/98	1487	360	RTA00000587F.n.19.1	M00001572C:E07
361	5/14/98	1487	361	RTA00000590F.a.02.1	M00004240D:E06
362	5/14/98	1487	362	RTA00000587F.m.18.1	M00001569B:F04
363	5/14/98	1487	363	RTA00000583F.k.09.3	M00001362A:C10
364	5/14/98	1487	364	RTA00000608F.a.23.1	M00003974B:A04
365	5/14/98	1487	365	RTA00000597F.e.22.1	M00003784C:B09
366	5/14/98	1487	366	RTA00000583F.e.21.1	M00001348A:G04
367	5/14/98	1487	367	RTA00000607F.e.20.2	M00003912B:G11
368	5/14/98	1487	368	RTA00000614F.b.16.1	M00004388C:D05
369	5/14/98	1487	369	RTA00000587F.b.03.1	M00001518D:A10
370	5/14/98	1487	370	RTA00000609F.f.02.3	M00004060C:A11
371	5/14/98	1487	371	RTA00000587F.c.20.1	M00001536B:B11
372	5/14/98	1487	372	RTA00000612F.h.05.3	M00004245C:A03
373	5/14/98	1487	373	RTA00000596F.i.13.1	M00001693D:F07
374	5/14/98	1487	374	RTA00000585F.f.01.2	M00001426D:D09
375	5/14/98	1487	375	RTA00000611F.m.07.3	M00004196C:G05
376	5/14/98	1487	376	RTA00000606F.b.08.1	M00003825C:B12
377	5/14/98	1487	377	RTA00000609F.b.10.2	M00004048D:A07
378	5/14/98	1487	378	RTA00000609F.g.13.1	M00004067C:D08
379	5/14/98	1487	379	RTA00000587F.l.11.1	M00001565A:A02
380	5/14/98	1487	380	RTA00000608F.h.07.2	M00003993A:E12
381	5/14/98	1487	381	RTA00000596F.m.21.1	M00003754C:F01
382	5/14/98	1487	382	RTA00000586F.p.11.1	M00001506D:A11
383	5/14/98	1487	383	RTA00000610F.c.01.1	M00004104A:H09
384	5/14/98	1487	384	RTA00000597F.n.10.1	M00003815C:A06
385	5/14/98	1487	385	RTA00000595F.c.14.1	M00001597A:C07
386	5/14/98	1487	386	RTA00000586F.j.09.1	M00001488B:G12
387	5/14/98	1487	387	RTA00000608F.l.20.1	M00004032D:D03
388	5/14/98	1487	388	RTA00000613F.g.13.1	M00004324B:D09
389	5/14/98	1487	389	RTA00000587F.j.21.1	M00001561B:C10
390	5/14/98	1487	390	RTA00000583F.l.16.3	M00001365D:H09
391	5/14/98	1487	391	RTA00000614F.d.16.1	M00004406A:H03
392	5/14/98	1487	392	RTA00000610F.j.11.1	M00004134A:F08
393	5/14/98	1487	393	RTA00000611F.j.11.1	M00004188A:E05
394	5/14/98	1487	394	RTA00000609F.p.14.1	M00004093A:F03
395	5/14/98	1487	395	RTA00000597F.l.18.1	M00003811B:E07
396	5/14/98	1487	396	RTA00000585F.h.03.2	M00001432A:F12
397	5/14/98	1487	397	RTA00000607F.h.23.1	M00003920D:D09
398	5/14/98	1487	398	RTA00000607F.f.23.2	M00003915B:G07
399	5/14/98	1487	399	RTA00000607F.f.18.2	M00003915A:D09

Priority Appln Information					
SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
400	5/14/98	1487	400	RTA00000609F.i.23.2	M00004073D:B11
401	5/14/98	1487	401	RTA00000612F.f.05.3	M00004236D:F04
402	5/14/98	1487	402	RTA00000597F.o.07.1	M00003818B:A01
403	5/14/98	1487	403	RTA00000611F.o.06.5	M00004201D:C11
404	5/14/98	1487	404	RTA00000589F.e.05.2	M00004051C:D02
405	5/14/98	1487	405	RTA00000584F.o.07.1	M00001407D:H11
406	5/14/98	1487	406	RTA00000608F.e.06.1	M00003983A:D02
407	5/14/98	1487	407	RTA00000595F.a.22.1	M00001588D:H08
408	5/14/98	1487	408	RTA00000611F.c.03.2	M00004164D:D02
409	5/14/98	1487	409	RTA00000585F.c.03.2	M00001418A:C02
410	5/14/98	1487	410	RTA00000611F.b.07.1	M00004161B:A12
411	5/14/98	1487	411	RTA00000587F.g.09.2	M00001546B:H01
412	5/14/98	1487	412	RTA00000611F.c.11.2	M00004165C:E09
413	5/14/98	1487	413	RTA00000610F.c.18.1	M00004108A:D04
414	5/14/98	1487	414	RTA00000611F.i.21.1	M00004186B:E05
415	5/14/98	1487	415	RTA00000597F.e.11.1	M00003782D:F04
416	5/14/98	1487	416	RTA00000586F.m.02.1	M00001496C:H10
417	5/14/98	1487	417	RTA00000585F.b.20.3	M00001417C:A09
418	5/14/98	1487	418	RTA00000606F.n.15.1	M00003881D:D09
419	5/14/98	1487	419	RTA00000611F.h.17.2	M00004183A:D06
420	5/14/98	1487	420	RTA00000609F.c.15.1	M00004052C:A08
421	5/14/98	1487	421	RTA00000614F.m.10.1	M00004497C:E09
422	5/14/98	1487	422	RTA00000612F.c.08.2	M00004218D:F12
423	5/14/98	1487	423	RTA00000613F.h.22.1	M00004332C:E09
424	5/14/98	1487	424	RTA00000587F.f.05.1	M00001543A:D03
425	5/14/98	1487	425	RTA00000585F.k.04.1	M00001438A:H10
426	5/14/98	1487	426	RTA00000585F.k.15.1	M00001439B:F10
427	5/14/98	1487	427	RTA00000609F.p.04.1	M00004092A:D04
428	5/14/98	1487	428	RTA00000585F.j.01.1	M00001435C:H05
429	5/14/98	1487	429	RTA00000587F.a.20.1	M00001517D:C03
430	5/14/98	1487	430	RTA00000609F.f.04.3	M00004060D:A07
431	5/14/98	1487	431	RTA00000611F.k.13.2	M00004190D:A10
432	5/14/98	1487	432	RTA00000586F.f.08.2	M00001471C:G03
433	5/14/98	1487	433	RTA00000585F.i.14.1	M00001435A:G01
434	5/14/98	1487	434	RTA00000614F.b.08.1	M00004385C:B11
435	5/14/98	1487	435	RTA00000609F.o.04.2	M00004089A:G03
436	5/14/98	1487	436	RTA00000583F.n.03.1	M00001370A:B01
437	5/14/98	1487	437	RTA00000584F.j.05.1	M00001396C:G02
438	5/14/98	1487	438	RTA00000608F.a.16.2	M00003973B:H06
439	5/14/98	1487	439	RTA00000583F.b.15.1	M00001341A:A11

Priority Appln Information					
SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
440	5/14/98	1487	440	RTA00000596F.a.22.1	M00001659D:G08
441	5/14/98	1487	441	RTA00000589F.c.15.1	M00004030A:G12
442	5/14/98	1487	442	RTA00000610F.o.03.1	M00004149B:H12
443	5/14/98	1487	443	RTA00000596F.e.06.2	M00001677A:A12
444	5/14/98	1487	444	RTA00000607F.p.01.2	M00003965A:F07
445	5/14/98	1487	445	RTA00000611F.c.16.2	M00004166A:F02
446	5/14/98	1487	446	RTA00000611F.b.01.1	M00004159D:H07
447	5/14/98	1487	447	RTA00000612F.b.12.2	M00004217A:A11
448	5/14/98	1487	448	RTA00000584F.h.09.1	M00001391D:A09
449	5/14/98	1487	449	RTA00000612F.g.18.3	M00004242C:C02
450	5/14/98	1487	450	RTA00000609F.b.18.2	M00004049D:G04
451	5/14/98	1487	451	RTA00000608F.f.17.1	M00003987D:F06
452	5/14/98	1487	452	RTA00000589F.e.21.2	M00004058B:F12
453	5/14/98	1487	453	RTA00000606F.j.07.1	M00003857C:A03
454	5/14/98	1487	454	RTA00000610F.b.21.1	M00004103C:F11
455	5/14/98	1487	455	RTA00000611F.c.22.2	M00004166D:G07
456	5/14/98	1487	456	RTA00000583F.d.04.1	M00001344D:G11
457	5/14/98	1487	457	RTA00000610F.h.08.1	M00004126B:G02
458	5/14/98	1487	458	RTA00000596F.a.06.1	M00001658B:C07
459	5/14/98	1487	459	RTA00000612F.o.10.2	M00004281B:B05
460	5/14/98	1487	460	RTA00000610F.l.22.1	M00004143A:G12
461	5/14/98	1487	461	RTA00000612F.o.09.2	M00004281B:B03
462	5/14/98	1487	462	RTA00000596F.f.09.2	M00001681A:H09
463	5/14/98	1487	463	RTA00000607F.p.13.2	M00003970A:G10
464	5/14/98	1487	464	RTA00000610F.e.11.1	M00004115C:H04
465	5/14/98	1487	465	RTA00000611F.b.02.1	M00004160A:A01
466	5/14/98	1487	466	RTA00000608F.j.24.1	M00004027C:H01
467	5/14/98	1487	467	RTA00000614F.k.22.1	M00004470C:A02
468	5/14/98	1487	468	RTA00000612F.h.09.3	M00004247A:E01
469	5/14/98	1487	469	RTA00000587F.f.01.1	M00001542C:D10
470	5/14/98	1487	470	RTA00000608F.d.04.1	M00003980C:G10
471	5/14/98	1487	471	RTA00000585F.m.16.2	M00001443D:C03
472	5/14/98	1487	472	RTA00000613F.c.17.1	M00004298B:D04
473	5/14/98	1487	473	RTA00000613F.h.19.1	M00004332B:D02
474	5/14/98	1487	474	RTA00000609F.d.07.1	M00004054B:G02
475	5/14/98	1487	475	RTA00000606F.o.17.1	M00003887B:C03
476	5/14/98	1487	476	RTA00000585F.n.10.1	M00001445B:E03
477	5/14/98	1487	477	RTA00000612F.p.04.2	M00004284B:F07
478	5/14/98	1487	478	RTA00000589F.c.02.1	M00003997B:H04
479	5/14/98	1487	479	RTA00000608F.p.16.1	M00004044A:F08

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SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
480	5/14/98	1487	480	RTA00000597F.n.12.1	M00003815D:D01
481	5/14/98	1487	481	RTA00000608F.l.10.1	M00004031A:G05
482	5/14/98	1487	482	RTA00000606F.o.05.1	M00003884D:A12
483	5/14/98	1487	483	RTA00000587F.j.05.1	M00001558B:A12
484	5/14/98	1487	484	RTA00000584F.d.15.1	M00001384A:C09
485	5/14/98	1487	485	RTA00000612F.n.22.1	M00004279D:E02
486	5/14/98	1487	486	RTA00000585F.m.13.2	M00001443D:A01
487	5/14/98	1487	487	RTA00000586F.m.22.1	M00001500A:D09
488	5/14/98	1487	488	RTA00000608F.i.17.1	M00003997D:G11
489	5/14/98	1487	489	RTA00000614F.k.04.1	M00004466A:E09
490	5/14/98	1487	490	RTA00000608F.n.15.1	M00004037C:C05
491	5/14/98	1487	491	RTA00000610F.m.06.1	M00004143C:F08
492	5/14/98	1487	492	RTA00000585F.d.12.2	M00001422D:D02
493	5/14/98	1487	493	RTA00000608F.b.19.1	M00003976D:D12
494	5/14/98	1487	494	RTA00000596F.k.06.1	M00003745C:E03
495	5/14/98	1487	495	RTA00000609F.o.14.2	M00004091A:E01
496	5/14/98	1487	496	RTA00000607F.m.14.1	M00003949B:A08
497	5/14/98	1487	497	RTA00000606F.f.08.1	M00003841B:D05
498	5/14/98	1487	498	RTA00000583F.l.14.3	M00001365D:D12
499	5/14/98	1487	499	RTA00000614F.g.04.1	M00004419D:G01
500	5/14/98	1487	500	RTA00000610F.m.21.1	M00004145C:A03
501	5/14/98	1487	501	RTA00000585F.d.16.1	M00001423C:D06
502	5/14/98	1487	502	RTA00000588F.o.05.2	M00003918C:E07
503	5/14/98	1487	503	RTA00000585F.b.04.3	M00001415D:E12
504	5/14/98	1487	504	RTA00000588F.d.21.1	M00001687C:A06
505	5/14/98	1487	505	RTA00000595F.g.16.1	M00001614C:G04
506	5/14/98	1487	506	RTA00000612F.i.18.2	M00004253B:F06
507	5/14/98	1487	507	RTA00000612F.e.12.1	M00004234B:G06
508	5/14/98	1487	508	RTA00000583F.p.08.1	M00001374D:D09
509	5/14/98	1487	509	RTA00000608F.b.04.1	M00003974C:A05
510	5/14/98	1487	510	RTA00000596F.l.07.1	M00003749B:C08
511	5/14/98	1487	511	RTA00000597F.l.02.1	M00003809A:H12
512	5/14/98	1487	512	RTA00000595F.j.05.1	M00001626C:C10
513	5/14/98	1487	513	RTA00000586F.k.18.1	M00001491D:E07
514	5/14/98	1487	514	RTA00000608F.p.07.1	M00004041D:E06
515	5/14/98	1487	515	RTA00000596F.m.07.1	M00003752D:D09
516	5/14/98	1487	516	RTA00000588F.l.20.2	M00003859C:B09
517	5/14/98	1487	517	RTA00000614F.a.20.1	M00004383A:F02
518	5/14/98	1487	518	RTA00000597F.i.20.1	M00003799B:D02
519	5/14/98	1487	519	RTA00000611F.n.14.3	M00004200A:A09

Priority Appln Information					
SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
520	5/14/98	1487	520	RTA00000586F.m.10.1	M00001499A:D01
521	5/14/98	1487	521	RTA00000607F.i.06.4	M00003921D:C06
522	5/14/98	1487	522	RTA00000585F.p.19.2	M00001453B:F08
523	5/14/98	1487	523	RTA00000583F.c.06.1	M00001342C:A04
524	5/14/98	1487	524	RTA00000595F.p.20.1	M00001656D:F11
525	5/14/98	1487	525	RTA00000606F.g.02.1	M00003844C:D04
526	5/14/98	1487	526	RTA00000606F.d.10.1	M00003834A:A03
527	5/14/98	1487	527	RTA00000597F.f.21.1	M00003787B:D07
528	5/14/98	1487	528	RTA00000613F.h.17.1	M00004331D:H08
529	5/14/98	1487	529	RTA00000612F.h.19.3	M00004249D:G02
530	5/14/98	1487	530	RTA00000589F.h.23.1	M00004091B:G04
531	5/14/98	1487	531	RTA00000614F.e.06.1	M00004408D:A10
532	5/14/98	1487	532	RTA00000612F.j.20.2	M00004262C:C01
533	5/14/98	1487	533	RTA00000597F.m.07.1	M00003812B:F08
534	5/14/98	1487	534	RTA00000589F.j.08.1	M00004115A:F01
535	5/14/98	1487	535	RTA00000609F.g.16.1	M00004068A:F02
536	5/14/98	1487	536	RTA00000587F.i.18.1	M00001556D:A11
537	5/14/98	1487	537	RTA00000610F.c.05.1	M00004104D:C09
538	5/14/98	1487	538	RTA00000607F.o.16.2	M00003963B:D12
539	5/14/98	1487	539	RTA00000585F.i.08.1	M00001434C:D05
540	5/14/98	1487	540	RTA00000584F.a.15.2	M00001377A:E01
541	5/14/98	1487	541	RTA00000611F.p.24.2	M00004210A:B09
542	5/14/98	1487	542	RTA00000607F.a.13.3	M00003893C:D12
543	5/14/98	1487	543	RTA00000612F.f.03.1	M00004236D:E07
544	5/14/98	1487	544	RTA00000606F.p.14.1	M00003890B:H07
545	5/14/98	1487	545	RTA00000612F.j.17.2	M00004260C:E10
546	5/14/98	1487	546	RTA00000585F.c.24.2	M00001421A:H07
547	5/14/98	1487	547	RTA00000607F.i.24.2	M00003926B:E03
548	5/14/98	1487	548	RTA00000609F.e.15.3	M00004058C:E08
549	5/14/98	1487	549	RTA00000584F.p.18.1	M00001411C:G02
550	5/14/98	1487	550	RTA00000610F.i.10.1	M00004130C:A09
551	5/14/98	1487	551	RTA00000585F.b.17.3	M00001417B:C07
552	5/14/98	1487	552	RTA00000586F.o.12.1	M00001504C:H11
553	5/14/98	1487	553	RTA00000608F.g.24.1	M00003992C:G01
554	5/14/98	1487	554	RTA00000584F.e.20.1	M00001387A:A04
555	5/14/98	1487	555	RTA00000588F.j.23.3	M00003843A:B01
556	5/14/98	1487	556	RTA00000585F.b.21.3	M00001417C:E02
557	5/14/98	1487	557	RTA00000584F.o.08.1	M00001408A:B02
558	5/14/98	1487	558	RTA00000587F.k.22.1	M00001563C:D06
559	5/14/98	1487	559	RTA00000608F.a.07.3	M00003972C:F02

Priority Appln Information

SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
560	5/14/98	1487	560	RTA00000597F.c.04.4	M00003773B:E09
561	5/14/98	1487	561	RTA00000596F.c.06.1	M00001669B:A03
562	5/14/98	1487	562	RTA00000588F.o.01.2	M00003912C:H01
563	5/14/98	1487	563	RTA00000597F.i.16.1	M00003797D:H06
564	5/14/98	1487	564	RTA00000583F.n.07.1	M00001370B:D04
565	5/14/98	1487	565	RTA00000597F.f.07.1	M00003785D:E01
566	5/14/98	1487	566	RTA00000587F.f.06.1	M00001543A:E04
567	5/14/98	1487	567	RTA00000614F.o.11.1	M00004509A:H02
568	5/14/98	1487	568	RTA00000597F.b.16.5	M00003771D:A10
569	5/14/98	1487	569	RTA00000608F.m.19.1	M00004035B:H11
570	5/14/98	1487	570	RTA00000597F.k.21.1	M00003808C:D09
571	5/14/98	1487	571	RTA00000584F.o.13.1	M00001409C:D01
572	5/14/98	1487	572	RTA00000588F.n.10.3	M00003895D:A03
573	5/14/98	1487	573	RTA00000589F.h.17.1	M00004089A:F02
574	5/14/98	1487	574	RTA00000609F.h.13.1	M00004069D:G02
575	5/14/98	1487	575	RTA00000608F.p.15.1	M00004043D:C10
576	5/14/98	1487	576	RTA00000595F.l.16.1	M00001640A:F02
577	5/14/98	1487	577	RTA00000585F.j.21.1	M00001437B:B05
578	5/14/98	1487	578	RTA00000595F.o.01.2	M00001649B:E08
579	5/14/98	1487	579	RTA00000606F.c.03.1	M00003829A:B08
580	5/14/98	1487	580	RTA00000583F.n.04.1	M00001370A:G09
581	5/14/98	1487	581	RTA00000596F.p.20.1	M00003766B:G04
582	5/14/98	1487	582	RTA00000611F.c.20.2	M00004166C:A03
583	5/14/98	1487	583	RTA00000584F.l.19.1	M00001399D:F09
584	5/14/98	1487	584	RTA00000589F.p.23.1	M00004239C:A07
585	5/14/98	1487	585	RTA00000607F.c.09.2	M00003903C:H03
586	5/14/98	1487	586	RTA00000585F.p.23.2	M00001453D:F09
587	5/14/98	1487	587	RTA00000596F.j.13.1	M00003741A:E01
588	5/14/98	1487	588	RTA00000584F.m.03.1	M00001400D:B08
589	5/14/98	1487	589	RTA00000595F.o.03.2	M00001649D:H05
590	5/14/98	1487	590	RTA00000589F.j.03.1	M00004109B:A01
591	5/14/98	1487	591	RTA00000610F.c.14.1	M00004107C:A01
592	5/14/98	1487	592	RTA00000614F.f.02.1	M00004412B:E03
593	5/14/98	1487	593	RTA00000608F.b.23.1	M00003977C:A08
594	5/14/98	1487	594	RTA00000597F.i.06.1	M00003796B:C07
595	5/14/98	1487	595	RTA00000609F.n.20.1	M00004087C:F05
596	5/14/98	1487	596	RTA00000597F.c.08.2	M00003773C:G06
597	5/14/98	1487	597	RTA00000612F.c.05.2	M00004218C:G10
598	5/14/98	1487	598	RTA00000589F.o.14.1	M00004202B:A02
599	5/14/98	1487	599	RTA00000609F.h.15.1	M00004071A:H03

Priority Appln Information

SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
600	5/14/98	1487	600	RTA00000596F.p.15.1	M00003765D:E02
601	5/14/98	1487	601	RTA00000597F.k.22.1	M00003809A:A12
602	5/14/98	1487	602	RTA00000608F.k.09.1	M00004028C:D01
603	5/14/98	1487	603	RTA00000612F.p.23.2	M00004287C:B06
604	5/14/98	1487	604	RTA00000610F.n.02.1	M00004146D:A07
605	5/14/98	1487	605	RTA00000587F.h.19.2	M00001551D:C12
606	5/14/98	1487	606	RTA00000607F.k.18.1	M00003934D:F01
607	5/14/98	1487	607	RTA00000588F.m.10.3	M00003868D:F07
608	5/14/98	1487	608	RTA00000612F.p.21.1	M00004287B:B12
609	5/14/98	1487	609	RTA00000585F.m.08.1	M00001443A:E02
610	5/14/98	1487	610	RTA00000612F.d.01.1	M00004225D:F01
611	5/14/98	1487	611	RTA00000596F.d.20.1	M00001675C:B03
612	5/14/98	1487	612	RTA00000611F.k.12.2	M00004190C:G07
613	5/14/98	1487	613	RTA00000612F.j.11.2	M00004257C:A08
614	5/14/98	1487	614	RTA00000614F.j.16.1	M00004463C:F11
615	5/14/98	1487	615	RTA00000611F.k.15.3	M00004190D:G12
616	5/14/98	1487	616	RTA00000612F.j.01.2	M00004253D:F09
617	5/14/98	1487	617	RTA00000606F.o.23.1	M00003888B:A10
618	5/14/98	1487	618	RTA00000606F.i.13.1	M00003852D:D03
619	5/14/98	1487	619	RTA00000588F.i.22.3	M00003833D:D06
620	5/14/98	1487	620	RTA00000585F.j.03.1	M00001435D:A06
621	5/14/98	1487	621	RTA00000608F.i.21.1	M00003998A:G12
622	5/14/98	1487	622	RTA00000584F.o.02.1	M00001406D:B06
623	5/14/98	1487	623	RTA00000608F.m.17.1	M00004035B:F05
624	5/14/98	1487	624	RTA00000612F.k.08.2	M00004263D:F06
625	5/14/98	1487	625	RTA00000608F.p.20.1	M00004045A:B12
626	5/14/98	1487	626	RTA00000610F.n.07.1	M00004147A:G03
627	5/14/98	1487	627	RTA00000608F.j.17.1	M00004027A:B10
628	5/14/98	1487	628	RTA00000596F.n.23.1	M00003759A:E10
629	5/14/98	1487	629	RTA00000612F.a.17.2	M00004214A:D03
630	5/14/98	1487	630	RTA00000612F.i.17.2	M00004253B:A10
631	5/14/98	1487	631	RTA00000585F.p.15.2	M00001452D:E05
632	5/14/98	1487	632	RTA00000614F.m.15.1	M00004498B:E01
633	5/14/98	1487	633	RTA00000607F.a.08.3	M00003892D:D04
634	5/14/98	1487	634	RTA00000606F.p.16.1	M00003890D:C03
635	5/14/98	1487	635	RTA00000610F.j.12.1	M00004134A:H04
636	5/14/98	1487	636	RTA00000608F.o.16.1	M00004040C:G12
637	5/14/98	1487	637	RTA00000588F.o.20.2	M00003958C:C10
638	5/14/98	1487	638	RTA00000585F.p.06.2	M00001451B:H11
639	5/14/98	1487	639	RTA00000610F.j.05.1	M00004133D:A01

Priority Appln Information

SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
640	5/14/98	1487	640	RTA00000606F.e.17.1	M00003839C:B05
641	5/14/98	1487	641	RTA00000609F.n.05.1	M00004086A:A03
642	5/14/98	1487	642	RTA00000614F.p.22.1	M00004609C:C11
643	5/14/98	1487	643	RTA00000585F.h.16.2	M00001433A:F04
644	5/14/98	1487	644	RTA00000611F.n.02.3	M00004198D:H04
645	5/14/98	1487	645	RTA00000614F.p.06.1	M00004605C:A09
646	5/14/98	1487	646	RTA00000584F.l.17.1	M00001399D:F01
647	5/14/98	1487	647	RTA00000584F.p.17.1	M00001411C:F02
648	5/14/98	1487	648	RTA00000595F.l.17.1	M00001640A:F04
649	5/14/98	1487	649	RTA00000583F.h.07.1	M00001353B:D11
650	5/14/98	1487	650	RTA00000585F.l.19.1	M00001442A:D08
651	5/14/98	1487	651	RTA00000610F.i.13.1	M00004130D:E04
652	5/14/98	1487	652	RTA00000608F.n.05.1	M00004036B:F09
653	5/14/98	1487	653	RTA00000612F.m.19.1	M00004276C:E12
654	5/14/98	1487	654	RTA00000595F.h.22.1	M00001621C:A04
655	5/14/98	1487	655	RTA00000608F.j.12.1	M00003999C:C12
656	5/14/98	1487	656	RTA00000608F.k.07.2	M00004028C:B04
657	5/14/98	1487	657	RTA00000608F.o.12.1	M00004040B:B09
658	5/14/98	1487	658	RTA00000597F.a.08.5	M00003767C:F04
659	5/14/98	1487	659	RTA00000585F.i.23.1	M00001435C:G08
660	5/14/98	1487	660	RTA00000586F.j.06.1	M00001487D:G03
661	5/14/98	1487	661	RTA00000608F.b.15.1	M00003976C:C05
662	5/14/98	1487	662	RTA00000609F.h.06.1	M00004069B:B01
663	5/14/98	1487	663	RTA00000612F.h.13.3	M00004248A:G08
664	5/14/98	1487	664	RTA00000611F.j.08.1	M00004187C:H09
665	5/14/98	1487	665	RTA00000609F.j.18.1	M00004076A:E02
666	5/14/98	1487	666	RTA00000608F.p.01.1	M00004041B:F01
667	5/14/98	1487	667	RTA00000584F.m.16.1	M00001402D:H03
668	5/14/98	1487	668	RTA00000589F.d.04.1	M00004036C:D01
669	5/14/98	1487	669	RTA00000612F.p.12.2	M00004285B:E01
670	5/14/98	1487	670	RTA00000589F.e.09.1	M00004052C:B05
671	5/14/98	1487	671	RTA00000584F.m.11.1	M00001402C:E09
672	5/14/98	1487	672	RTA00000595F.i.18.1	M00001624A:A09
673	5/14/98	1487	673	RTA00000609F.k.04.2	M00004078A:F03
674	5/14/98	1487	674	RTA00000611F.n.17.2	M00004200B:B04
675	5/14/98	1487	675	RTA00000595F.j.03.1	M00001626B:H05
676	5/14/98	1487	676	RTA00000611F.o.11.3	M00004202B:F04
677	5/14/98	1487	677	RTA00000597F.e.16.1	M00003783C:A06
678	5/14/98	1487	678	RTA00000583F.d.16.1	M00001346A:B09
679	5/14/98	1487	679	RTA00000589F.l.24.1	M00004159D:C04

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SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
680	5/14/98	1487	680	RTA00000597F.a.17.2	M00003769B:A04
681	5/14/98	1487	681	RTA00000584F.p.22.1	M00001412A:A11
682	5/14/98	1487	682	RTA00000587F.i.23.1	M00001557B:D10
683	5/14/98	1487	683	RTA00000612F.l.16.2	M00004269D:E08
684	5/14/98	1487	684	RTA00000584F.c.01.1	M00001380C:D10
685	5/14/98	1487	685	RTA00000606F.g.21.1	M00003846D:C12
686	5/14/98	1487	686	RTA00000611F.j.12.1	M00004188A:E10
687	5/14/98	1487	687	RTA00000585F.h.10.2	M00001432C:G01
688	5/14/98	1487	688	RTA00000585F.h.10.1	M00001432C:G01
689	5/14/98	1487	689	RTA00000587F.j.15.1	M00001560C:C01
690	5/14/98	1487	690	RTA00000608F.o.06.1	M00004039D:D03
691	5/14/98	1487	691	RTA00000596F.e.05.2	M00001677A:A06
692	5/14/98	1487	692	RTA00000584F.p.07.1	M00001411A:D01
693	5/14/98	1487	693	RTA00000612F.i.13.2	M00004252D:H08
694	5/14/98	1487	694	RTA00000607F.i.14.4	M00003923A:H07
695	5/14/98	1487	695	RTA00000595F.m.17.2	M00001645B:C09
696	5/14/98	1487	696	RTA00000595F.i.02.1	M00001621D:B09
697	5/14/98	1487	697	RTA00000585F.p.12.2	M00001452B:F09
698	5/14/98	1487	698	RTA00000589F.m.02.1	M00004160A:D07
699	5/14/98	1487	699	RTA00000595F.p.11.1	M00001655A:F07
700	5/14/98	1487	700	RTA00000589F.o.15.1	M00004202B:G09
701	5/14/98	1487	701	RTA00000609F.e.12.3	M00004058B:C11
702	5/14/98	1487	702	RTA00000588F.l.13.2	M00003858A:D01
703	5/14/98	1487	703	RTA00000608F.f.22.2	M00003988B:C10
704	5/14/98	1487	704	RTA00000612F.i.11.2	M00004252D:A07
705	5/14/98	1487	705	RTA00000590F.b.13.1	M00004277D:C08
706	5/14/98	1487	706	RTA00000609F.a.21.2	M00004047B:G09
707	5/14/98	1487	707	RTA00000586F.e.12.1	M00001468D:D11
708	5/14/98	1487	708	RTA00000595F.k.10.1	M00001634C:E12
709	5/14/98	1487	709	RTA00000583F.e.02.1	M00001346C:B07
710	5/14/98	1487	710	RTA00000589F.d.01.1	M00004035D:C05
711	5/14/98	1487	711	RTA00000584F.n.14.1	M00001406A:G12
712	5/14/98	1487	712	RTA00000612F.k.21.2	M00004266B:H06
713	5/14/98	1487	713	RTA00000612F.m.05.1	M00004272D:D02
714	5/14/98	1487	714	RTA00000584F.a.20.2	M00001377C:B08
715	5/14/98	1487	715	RTA00000612F.b.11.2	M00004217A:A05
716	5/14/98	1487	716	RTA00000610F.h.13.1	M00004126D:B11
717	5/14/98	1487	717	RTA00000611F.d.04.1	M00004167C:F10
718	5/14/98	1487	718	RTA00000607F.f.12.2	M00003914C:E03
719	5/14/98	1487	719	RTA00000586F.j.10.1	M00001488B:H02

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SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
720	5/14/98	1487	720	RTA00000584F.p.20.1	M00001411D:C01
721	5/14/98	1487	721	RTA00000612F.i.19.2	M00004253C:E10
722	5/14/98	1487	722	RTA00000608F.i.09.1	M00003996D:C04
723	5/14/98	1487	723	RTA00000584F.g.09.1	M00001390A:H01
724	5/14/98	1487	724	RTA00000584F.n.12.1	M00001405D:F05
725	5/14/98	1487	725	RTA00000584F.j.12.1	M00001397B:H11
726	5/14/98	1487	726	RTA00000611F.h.21.2	M00004183D:B07
727	5/14/98	1487	727	RTA00000606F.l.23.1	M00003871A:E09
728	5/14/98	1487	728	RTA00000585F.b.01.3	M00001415D:A05
729	5/14/98	1487	729	RTA00000595F.i.13.1	M00001623B:B01
730	5/14/98	1487	730	RTA00000589F.l.22.1	M00004158C:F03
731	5/14/98	1487	731	RTA00000608F.l.14.1	M00004031D:G02
732	5/14/98	1487	732	RTA00000614F.k.18.1	M00004469A:C12
733	5/14/98	1487	733	RTA00000609F.g.19.1	M00004068B:D04
734	5/14/98	1487	734	RTA00000606F.g.05.1	M00003845A:A05
735	5/14/98	1487	735	RTA00000585F.i.03.1	M00001434A:A01
736	5/14/98	1487	736	RTA00000590F.a.15.1	M00004247B:C11
737	5/14/98	1487	737	RTA00000612F.j.15.2	M00004260C:A12
738	5/14/98	1487	738	RTA00000612F.g.13.3	M00004241B:B01
739	5/14/98	1487	739	RTA00000606F.d.21.1	M00003835D:H05
740	5/14/98	1487	740	RTA00000584F.b.06.1	M00001378B:F06
741	5/14/98	1487	741	RTA00000614F.e.17.1	M00004410A:E03
742	5/14/98	1487	742	RTA00000612F.a.13.2	M00004213A:H12
743	5/14/98	1487	743	RTA00000585F.o.10.2	M00001448A:D05
744	5/14/98	1487	744	RTA00000588F.i.14.3	M00003830A:A10
745	5/14/98	1487	745	RTA00000595F.e.10.1	M00001605D:G01
746	5/14/98	1487	746	RTA00000584F.b.06.2	M00001378B:F06
747	5/14/98	1487	747	RTA00000608F.j.05.1	M00003998C:H10
748	5/14/98	1487	748	RTA00000611F.j.24.2	M00004190A:C12
749	5/14/98	1487	749	RTA00000606F.h.12.1	M00003850B:D11
750	5/14/98	1487	750	RTA00000608F.c.22.1	M00003980B:F12
751	5/14/98	1487	751	RTA00000588F.b.03.1	M00001618B:F02
752	5/15/98	1488	1	RTA00000623F.c.23.1	M00007118C:G2
753	5/15/98	1488	2	RTA00000592F.e.05.1	M00005799C:C12
754	5/15/98	1488	3	RTA00000590F.p.04.1	M00005390B:G10
755	5/15/98	1488	4	RTA00000621F.m.13.1	M00006986C:G11
756	5/15/98	1488	5	RTA00000625F.n.12.1	M00006604C:H10
757	5/15/98	1488	6	RTA00000624F.b.01.1	M00005539D:G7
758	5/15/98	1488	7	RTA00000618F.h.12.1	M00006698B:E6
759	5/15/98	1488	8	RTA00000615F.h.16.1	M00005015D:D11

Priority Appln Information					
SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
760	5/15/98	1488	9	RTA00000618F.l.23.1	M00006721C:G7
761	5/15/98	1488	10	RTA00000619F.n.10.3	M00006820A:G5
762	5/15/98	1488	11	RTA00000621F.o.06.1	M00006992C:G2
763	5/15/98	1488	12	RTA00000619F.c.17.1	M00006756D:E10
764	5/15/98	1488	13	RTA00000615F.i.14.1	M00005294D:H2
765	5/15/98	1488	14	RTA00000617F.k.23.1	M00005496D:A10
766	5/15/98	1488	15	RTA00000623F.e.05.1	M00007125D:E3
767	5/15/98	1488	16	RTA00000617F.c.04.1	M00005456B:B7
768	5/15/98	1488	17	RTA00000623F.a.23.1	M00007107A:D11
769	5/15/98	1488	18	RTA00000619F.f.15.1	M00006770B:C5
770	5/15/98	1488	19	RTA00000626F.f.07.1	M00006650A:A10
771	5/15/98	1488	20	RTA00000624F.h.14.1	M00005621D:F1
772	5/15/98	1488	21	RTA00000617F.f.09.2	M00005469D:C11
773	5/15/98	1488	22	RTA00000620F.b.02.1	M00006835B:F4
774	5/15/98	1488	23	RTA00000616F.k.05.1	M00005415D:G2
775	5/15/98	1488	24	RTA00000617F.a.01.1	M00005447B:D2
776	5/15/98	1488	25	RTA00000592F.f.23.1	M00006587A:H8
777	5/15/98	1488	26	RTA00000623F.h.17.1	M00007150A:C9
778	5/15/98	1488	27	RTA00000622F.b.02.1	M00007010B:H1
779	5/15/98	1488	28	RTA00000621F.p.05.1	M00006995C:A2
780	5/15/98	1488	29	RTA00000620F.j.05.1	M00006884D:D6
781	5/15/98	1488	30	RTA00000623F.h.20.1	M00007150A:H6
782	5/15/98	1488	31	RTA00000590F.p.21.1	M00005399A:D1
783	5/15/98	1488	32	RTA00000622F.c.03.1	M00007013B:F2
784	5/15/98	1488	33	RTA00000623F.f.06.1	M00007132B:B11
785	5/15/98	1488	34	RTA00000617F.e.23.2	M00005468A:D8
786	5/15/98	1488	35	RTA00000623F.n.17.1	M00007204C:F9
787	5/15/98	1488	36	RTA00000619F.a.12.1	M00006743B:G12
788	5/15/98	1488	37	RTA00000621F.n.06.1	M00006989B:C11
789	5/15/98	1488	38	RTA00000623F.a.18.1	M00007105D:C7
790	5/15/98	1488	39	RTA00000624F.a.15.1	M00005534B:H10
791	5/15/98	1488	40	RTA00000625F.h.04.1	M00005810C:D4
792	5/15/98	1488	41	RTA00000591F.g.05.1	M00005460B:D2
793	5/15/98	1488	42	RTA00000620F.i.14.1	M00006882A:D1
794	5/15/98	1488	43	RTA00000624F.a.14.1	M00005534A:G6
795	5/15/98	1488	44	RTA00000621F.h.14.1	M00006960D:E6
796	5/15/98	1488	45	RTA00000617F.k.19.1	M00005494D:F11
797	5/15/98	1488	46	RTA00000625F.d.17.1	M00005763B:H9
798	5/15/98	1488	47	RTA00000620F.l.13.1	M00006901D:A11
799	5/15/98	1488	48	RTA00000623F.g.04.1	M00007140A:F11

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SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
800	5/15/98	1488	49	RTA00000622F.b.03.1	M00007010B:H3
801	5/15/98	1488	50	RTA00000615F.k.17.1	M00005342A:C4
802	5/15/98	1488	51	RTA00000618F.m.11.1	M00006725A:A3
803	5/15/98	1488	52	RTA00000618F.e.06.1	M00006686A:G12
804	5/15/98	1488	53	RTA00000619F.k.08.1	M00006805B:C4
805	5/15/98	1488	54	RTA00000590F.h.23.2	M00004840C:F2
806	5/15/98	1488	55	RTA00000622F.c.09.1	M00007014C:B7
807	5/15/98	1488	56	RTA00000619F.h.17.1	M00006785B:F9
808	5/15/98	1488	57	RTA00000617F.d.01.1	M00005460A:B10
809	5/15/98	1488	58	RTA00000620F.b.17.1	M00006837C:G6
810	5/15/98	1488	59	RTA00000616F.c.13.1	M00005383D:D6
811	5/15/98	1488	60	RTA00000619F.g.16.1	M00006779B:A11
812	5/15/98	1488	61	RTA00000591F.i.12.1	M00005480A:H12
813	5/15/98	1488	62	RTA00000615F.b.20.1	M00004846A:D2
814	5/15/98	1488	63	RTA00000615F.l.18.1	M00005352C:G9
815	5/15/98	1488	64	RTA00000591F.m.19.1	M00005519B:H4
816	5/15/98	1488	65	RTA00000620F.i.10.1	M00006879A:H11
817	5/15/98	1488	66	RTA00000618F.o.02.1	M00006733D:G12
818	5/15/98	1488	67	RTA00000620F.c.18.1	M00006846A:B1
819	5/15/98	1488	68	RTA00000624F.a.07.1	M00005530B:D3
820	5/15/98	1488	69	RTA00000592F.c.10.1	M00005704A:B11
821	5/15/98	1488	70	RTA00000618F.c.04.1	M00006676B:F11
822	5/15/98	1488	71	RTA00000591F.f.04.1	M00005452C:A2
823	5/15/98	1488	72	RTA00000617F.k.22.1	M00005496C:A1
824	5/15/98	1488	73	RTA00000626F.c.02.1	M00006644A:B11
825	5/15/98	1488	74	RTA00000592F.d.09.1	M00005765C:C4
826	5/15/98	1488	75	RTA00000615F.n.23.1	M00005359D:H8
827	5/15/98	1488	76	RTA00000591F.i.15.1	M00005480C:B12
828	5/15/98	1488	77	RTA00000624F.a.11.1	M00005531B:A3
829	5/15/98	1488	78	RTA00000590F.i.01.1	M00004841C:B9
830	5/15/98	1488	79	RTA00000626F.d.05.1	M00006640A:B1
831	5/15/98	1488	80	RTA00000591F.e.19.1	M00005450A:B10
832	5/15/98	1488	81	RTA00000625F.m.06.1	M00006594A:E8
833	5/15/98	1488	82	RTA00000615F.k.22.1	M00005342B:G10
834	5/15/98	1488	83	RTA00000615F.m.11.1	M00005354C:E2
835	5/15/98	1488	84	RTA00000624F.j.16.1	M00005631A:A11
836	5/15/98	1488	85	RTA00000626F.d.07.1	M00006640B:F5
837	5/15/98	1488	86	RTA00000620F.p.19.1	M00006923C:B1
838	5/15/98	1488	87	RTA00000615F.f.10.1	M00004999A:F1
839	5/15/98	1488	88	RTA00000615F.b.19.1	M00004845D:E11

Priority Appln Information					
SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
840	5/15/98	1488	89	RTA00000626F.a.07.1	M00006626A:G11
841	5/15/98	1488	90	RTA00000592F.b.20.1	M00005685B:D8
842	5/15/98	1488	91	RTA00000622F.p.16.1	M00007100C:D1
843	5/15/98	1488	92	RTA00000620F.a.16.1	M00006834A:C8
844	5/15/98	1488	93	RTA00000623F.e.21.1	M00007130B:B3
845	5/15/98	1488	94	RTA00000619F.k.05.1	M00006805A:E11
846	5/15/98	1488	95	RTA00000626F.c.10.1	M00006636D:A5
847	5/15/98	1488	96	RTA00000619F.i.13.1	M00006791B:B8
848	5/15/98	1488	97	RTA00000620F.k.22.1	M00006895D:E10
849	5/15/98	1488	98	RTA00000617F.a.17.1	M00005450D:D2
850	5/15/98	1488	99	RTA00000617F.c.18.1	M00005457D:C8
851	5/15/98	1488	100	RTA00000626F.g.12.1	M00006664B:B4
852	5/15/98	1488	101	RTA00000617F.j.11.1	M00005489A:F6
853	5/15/98	1488	102	RTA00000621F.c.11.1	M00006936B:E9
854	5/15/98	1488	103	RTA00000623F.f.12.1	M00007134B:G7
855	5/15/98	1488	104	RTA00000626F.g.17.1	M00006665A:F7
856	5/15/98	1488	105	RTA00000619F.o.06.4	M00006823D:D12
857	5/15/98	1488	106	RTA00000625F.j.10.1	M00005837A:D12
858	5/15/98	1488	107	RTA00000620F.k.12.1	M00006893C:F2
859	5/15/98	1488	108	RTA00000625F.j.06.1	M00005828D:C9
860	5/15/98	1488	109	RTA00000616F.b.12.1	M00005378A:A8
861	5/15/98	1488	110	RTA00000620F.d.04.1	M00006850C:G7
862	5/15/98	1488	111	RTA00000624F.n.20.1	M00005655D:C4
863	5/15/98	1488	112	RTA00000620F.m.14.1	M00006907C:D3
864	5/15/98	1488	113	RTA00000625F.m.15.1	M00006596D:H4
865	5/15/98	1488	114	RTA00000619F.g.19.1	M00006779D:D3
866	5/15/98	1488	115	RTA00000626F.b.10.1	M00006633D:A6
867	5/15/98	1488	116	RTA00000618F.c.23.1	M00006679C:D7
868	5/15/98	1488	117	RTA00000591F.o.17.1	M00005616B:D5
869	5/15/98	1488	118	RTA00000615F.b.23.1	M00004846D:H9
870	5/15/98	1488	119	RTA00000616F.e.20.1	M00005394A:G7
871	5/15/98	1488	120	RTA00000625F.b.23.1	M00005720B:D9
872	5/15/98	1488	121	RTA00000616F.i.13.4	M00005409D:C2
873	5/15/98	1488	122	RTA00000624F.l.02.1	M00005637D:C5
874	5/15/98	1488	123	RTA00000619F.b.06.1	M00006745D:E8
875	5/15/98	1488	124	RTA00000626F.b.23.1	M00006636A:E6
876	5/15/98	1488	125	RTA00000615F.k.24.1	M00005342D:F3
877	5/15/98	1488	126	RTA00000621F.h.22.1	M00006963A:H11
878	5/15/98	1488	127	RTA00000626F.b.05.1	M00006631D:C4
879	5/15/98	1488	128	RTA00000621F.i.20.2	M00006966D:G3

Priority Appln Information					
SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
880	5/15/98	1488	129	RTA00000624F.m.10.1	M00005646D:B3
881	5/15/98	1488	130	RTA00000623F.m.19.1	M00007198C:A10
882	5/15/98	1488	131	RTA00000622F.c.12.1	M00007014D:D4
883	5/15/98	1488	132	RTA00000617F.i.08.1	M00005483D:A2
884	5/15/98	1488	133	RTA00000625F.b.07.1	M00005710A:C8
885	5/15/98	1488	134	RTA00000620F.f.23.1	M00006867C:E7
886	5/15/98	1488	135	RTA00000620F.f.15.1	M00006866C:F3
887	5/15/98	1488	136	RTA00000621F.k.17.1	M00006974B:D6
888	5/15/98	1488	137	RTA00000625F.h.18.1	M00005813D:F6
889	5/15/98	1488	138	RTA00000622F.p.17.1	M00007101A:A11
890	5/15/98	1488	139	RTA00000620F.d.08.1	M00006851C:H9
891	5/15/98	1488	140	RTA00000621F.i.14.2	M00006966B:B9
892	5/15/98	1488	141	RTA00000625F.j.19.1	M00006576D:F11
893	5/15/98	1488	142	RTA00000618F.o.23.1	M00006737C:A8
894	5/15/98	1488	143	RTA00000618F.m.12.1	M00006725A:B3
895	5/15/98	1488	144	RTA00000625F.o.19.1	M00006616D:C8
896	5/15/98	1488	145	RTA00000619F.a.18.1	M00006744C:C6
897	5/15/98	1488	146	RTA00000624F.c.15.1	M00005565C:A8
898	5/15/98	1488	147	RTA00000617F.e.13.2	M00005465C:H2
899	5/15/98	1488	148	RTA00000592F.j.06.1	M00006664D:H9
900	5/15/98	1488	149	RTA00000615F.n.18.1	M00005359B:G1
901	5/15/98	1488	150	RTA00000624F.c.02.1	M00005550B:D9
902	5/15/98	1488	151	RTA00000620F.j.10.1	M00006886A:D6
903	5/15/98	1488	152	RTA00000620F.e.07.1	M00006860B:H1
904	5/15/98	1488	153	RTA00000625F.g.07.1	M00005798B:C11
905	5/15/98	1488	154	RTA00000617F.d.22.1	M00005462C:B2
906	5/15/98	1488	155	RTA00000622F.a.12.1	M00007006D:D4
907	5/15/98	1488	156	RTA00000620F.i.11.1	M00006879D:A10
908	5/15/98	1488	157	RTA00000616F.k.03.1	M00005415C:G8
909	5/15/98	1488	158	RTA00000624F.k.17.1	M00005636C:D11
910	5/15/98	1488	159	RTA00000615F.f.11.1	M00004999B:D12
911	5/15/98	1488	160	RTA00000620F.o.07.1	M00006917C:E7
912	5/15/98	1488	161	RTA00000617F.k.11.1	M00005493B:C8
913	5/15/98	1488	162	RTA00000622F.g.04.1	M00007037B:D4
914	5/15/98	1488	163	RTA00000591F.n.04.1	M00005528D:H6
915	5/15/98	1488	164	RTA00000625F.a.16.1	M00005706D:A9
916	5/15/98	1488	165	RTA00000620F.m.18.1	M00006908C:A5
917	5/15/98	1488	166	RTA00000620F.a.04.1	M00006832D:F10
918	5/15/98	1488	167	RTA00000624F.j.20.1	M00005632C:D6
919	5/15/98	1488	168	RTA00000590F.n.19.1	M00005378C:A10

Priority Appln Information					
SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
920	5/15/98	1488	169	RTA00000626F.c.13.1	M00006636D:F11
921	5/15/98	1488	170	RTA00000617F.f.01.2	M00005468B:D4
922	5/15/98	1488	171	RTA00000621F.i.18.2	M00006966C:B7
923	5/15/98	1488	172	RTA00000617F.a.13.1	M00005450A:A2
924	5/15/98	1488	173	RTA00000591F.m.06.1	M00005513A:D8
925	5/15/98	1488	174	RTA00000615F.g.07.1	M00005004B:C11
926	5/15/98	1488	175	RTA00000616F.o.24.1	M00005442D:C5
927	5/15/98	1488	176	RTA00000617F.a.20.1	M00005451A:E3
928	5/15/98	1488	177	RTA00000626F.a.18.1	M00006629D:D4
929	5/15/98	1488	178	RTA00000616F.c.23.1	M00005385C:D8
930	5/15/98	1488	179	RTA00000623F.m.07.1	M00007193D:A4
931	5/15/98	1488	180	RTA00000620F.h.18.1	M00006875D:D10
932	5/15/98	1488	181	RTA00000615F.l.16.1	M00005352B:D2
933	5/15/98	1488	182	RTA00000592F.c.17.1	M00005708D:B3
934	5/15/98	1488	183	RTA00000616F.c.24.1	M00005385C:G5
935	5/15/98	1488	184	RTA00000619F.l.16.1	M00006813A:C4
936	5/15/98	1488	185	RTA00000622F.c.18.1	M00007015C:G5
937	5/15/98	1488	186	RTA00000620F.p.09.1	M00006921B:E3
938	5/15/98	1488	187	RTA00000626F.f.08.1	M00006650A:B11
939	5/15/98	1488	188	RTA00000621F.h.08.1	M00006960A:G11
940	5/15/98	1488	189	RTA00000591F.g.19.1	M00005466A:F12
941	5/15/98	1488	190	RTA00000623F.m.10.1	M00007195B:B2
942	5/15/98	1488	191	RTA00000619F.j.13.1	M00006796A:H10
943	5/15/98	1488	192	RTA00000619F.f.22.1	M00006771A:H7
944	5/15/98	1488	193	RTA00000622F.m.06.1	M00007075C:D8
945	5/15/98	1488	194	RTA00000623F.i.03.1	M00007154A:E4
946	5/15/98	1488	195	RTA00000625F.k.08.1	M00006581D:H8
947	5/15/98	1488	196	RTA00000615F.c.13.1	M00004854A:C9
948	5/15/98	1488	197	RTA00000619F.j.11.1	M00006796A:C3
949	5/15/98	1488	198	RTA00000619F.o.01.1	M00006822D:F7
950	5/15/98	1488	199	RTA00000590F.h.12.2	M00004826A:E9
951	5/15/98	1488	200	RTA00000623F.d.07.1	M00007121C:H1
952	5/15/98	1488	201	RTA00000616F.f.24.1	M00005397C:B3
953	5/15/98	1488	202	RTA00000625F.o.03.1	M00006609A:G10
954	5/15/98	1488	203	RTA00000619F.k.20.1	M00006807D:D8
955	5/15/98	1488	204	RTA00000625F.n.22.1	M00006607B:F4
956	5/15/98	1488	205	RTA00000625F.n.03.1	M00006601D:F4
957	5/15/98	1488	206	RTA00000619F.c.13.1	M00006756B:B8
958	5/15/98	1488	207	RTA00000625F.g.21.1	M00005805D:E6
959	5/15/98	1488	208	RTA00000620F.g.06.1	M00006868D:E2

Priority Appln Information

SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
960	5/15/98	1488	209	RTA00000622F.i.04.1	M00007065B:B12
961	5/15/98	1488	210	RTA00000624F.d.21.1	M00005587B:H2
962	5/15/98	1488	211	RTA00000622F.f.20.1	M00007036A:D2
963	5/15/98	1488	212	RTA00000616F.d.09.1	M00005388A:F7
964	5/15/98	1488	213	RTA00000620F.n.05.1	M00006912B:E1
965	5/15/98	1488	214	RTA00000624F.k.22.1	M00005637B:D12
966	5/15/98	1488	215	RTA00000618F.p.11.1	M00006739B:B12
967	5/15/98	1488	216	RTA00000615F.g.09.1	M00005005C:E6
968	5/15/98	1488	217	RTA00000618F.j.23.1	M00006712B:H10
969	5/15/98	1488	218	RTA00000617F.l.02.1	M00005497B:H7
970	5/15/98	1488	219	RTA00000617F.l.09.1	M00005498B:F8
971	5/15/98	1488	220	RTA00000625F.n.21.1	M00006607B:E3
972	5/15/98	1488	221	RTA00000623F.c.20.1	M00007118B:B4
973	5/15/98	1488	222	RTA00000603F.d.13.1	M00007019A:B1
974	5/15/98	1488	223	RTA00000625F.k.06.1	M00006581C:D2
975	5/15/98	1488	224	RTA00000624F.b.23.1	M00005548B:E3
976	5/15/98	1488	225	RTA00000626F.d.11.1	M00006640D:H8
977	5/15/98	1488	226	RTA00000620F.g.14.1	M00006870C:H6
978	5/15/98	1488	227	RTA00000621F.l.17.1	M00006980A:F2
979	5/15/98	1488	228	RTA00000624F.o.13.1	M00005685A:A4
980	5/15/98	1488	229	RTA00000621F.k.18.1	M00006974B:F6
981	5/15/98	1488	230	RTA00000591F.a.23.1	M00005411D:A3
982	5/15/98	1488	231	RTA00000592F.i.01.1	M00006641C:H2
983	5/15/98	1488	232	RTA00000625F.p.10.1	M00006619B:C11
984	5/15/98	1488	233	RTA00000622F.h.04.1	M00007041B:C5
985	5/15/98	1488	234	RTA00000591F.e.08.1	M00005446A:G1
986	5/15/98	1488	235	RTA00000619F.d.13.1	M00006758D:C4
987	5/15/98	1488	236	RTA00000622F.p.10.1	M00007099A:F9
988	5/15/98	1488	237	RTA00000623F.m.04.1	M00007192C:H8
989	5/15/98	1488	238	RTA00000617F.i.06.1	M00005483A:F5
990	5/15/98	1488	239	RTA00000624F.d.24.1	M00005589C:B3
991	5/15/98	1488	240	RTA00000616F.p.08.1	M00005444B:E11
992	5/15/98	1488	241	RTA00000615F.j.18.1	M00005326B:F3
993	5/15/98	1488	242	RTA00000625F.p.19.1	M00006621A:G10
994	5/15/98	1488	243	RTA00000624F.h.09.1	M00005620C:C5
995	5/15/98	1488	244	RTA00000619F.d.23.1	M00006760D:G12
996	5/15/98	1488	245	RTA00000618F.f.24.1	M00006692B:E4
997	5/15/98	1488	246	RTA00000617F.l.12.1	M00005498C:G5
998	5/15/98	1488	247	RTA00000621F.o.09.1	M00006993B:B9
999	5/15/98	1488	248	RTA00000616F.p.04.1	M00005443D:C12

Priority Appln Information

SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
1000	5/15/98	1488	249	RTA00000620F.c.08.1	M00006841D:A8
1001	5/15/98	1488	250	RTA00000625F.n.01.1	M00006601C:A7
1002	5/15/98	1488	251	RTA00000617F.k.10.1	M00005493B:A12
1003	5/15/98	1488	252	RTA00000624F.l.11.1	M00005641B:E2
1004	5/15/98	1488	253	RTA00000624F.h.06.1	M00005619C:H10
1005	5/15/98	1488	254	RTA00000624F.h.11.1	M00005621A:G10
1006	5/15/98	1488	255	RTA00000590F.h.07.2	M00004824C:G9
1007	5/15/98	1488	256	RTA00000590F.o.09.1	M00005384A:A1
1008	5/15/98	1488	257	RTA00000620F.e.16.1	M00006863B:E6
1009	5/15/98	1488	258	RTA00000620F.k.11.1	M00006893C:B2
1010	5/15/98	1488	259	RTA00000619F.o.18.4	M00006825C:D6
1011	5/15/98	1488	260	RTA00000621F.k.03.1	M00006972A:F10
1012	5/15/98	1488	261	RTA00000625F.c.11.1	M00005722D:G3
1013	5/15/98	1488	262	RTA00000618F.n.05.1	M00006727B:G8
1014	5/15/98	1488	263	RTA00000623F.d.02.1	M00007119B:H10
1015	5/15/98	1488	264	RTA00000615F.k.05.1	M00005330C:F9
1016	5/15/98	1488	265	RTA00000623F.f.09.1	M00007132D:G8
1017	5/15/98	1488	266	RTA00000622F.d.01.1	M00007016C:E6
1018	5/15/98	1488	267	RTA00000618F.p.10.1	M00006739B:B10
1019	5/15/98	1488	268	RTA00000624F.l.23.1	M00005645D:F8
1020	5/15/98	1488	269	RTA00000619F.e.19.1	M00006764B:D5
1021	5/15/98	1488	270	RTA00000622F.h.12.1	M00007043A:B5
1022	5/15/98	1488	271	RTA00000622F.i.23.1	M00007051D:D9
1023	5/15/98	1488	272	RTA00000624F.l.13.1	M00005642B:C3
1024	5/15/98	1488	273	RTA00000624F.a.04.1	M00005528D:A10
1025	5/15/98	1488	274	RTA00000622F.e.17.1	M00007031C:D1
1026	5/15/98	1488	275	RTA00000590F.l.12.1	M00005353B:B9
1027	5/15/98	1488	276	RTA00000626F.f.01.1	M00006648C:E4
1028	5/15/98	1488	277	RTA00000620F.a.05.1	M00006832D:F11
1029	5/15/98	1488	278	RTA00000623F.d.04.1	M00007121A:A5
1030	5/15/98	1488	279	RTA00000618F.p.15.1	M00006739C:H7
1031	5/15/98	1488	280	RTA00000618F.o.03.1	M00006734A:H12
1032	5/15/98	1488	281	RTA00000640F.b.02.1	M00006927C:F12
1033	5/15/98	1488	282	RTA00000619F.g.20.1	M00006780A:H12
1034	5/15/98	1488	283	RTA00000618F.n.09.1	M00006728C:B6
1035	5/15/98	1488	284	RTA00000621F.d.09.1	M00006939B:E5
1036	5/15/98	1488	285	RTA00000619F.n.23.4	M00006822D:D5
1037	5/15/98	1488	286	RTA00000616F.k.16.1	M00005417A:E10
1038	5/15/98	1488	287	RTA00000625F.f.21.1	M00005783A:C5
1039	5/15/98	1488	288	RTA00000619F.b.17.1	M00006751B:B11

Priority Appln Information					
SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
1040	5/15/98	1488	289	RTA00000622F.h.11.1	M00007042A:E7
1041	5/15/98	1488	290	RTA00000621F.k.12.1	M00006973D:E11
1042	5/15/98	1488	291	RTA00000620F.p.08.1	M00006921B:E1
1043	5/15/98	1488	292	RTA00000625F.d.13.1	M00005762D:A1
1044	5/15/98	1488	293	RTA00000592F.g.18.1	M00006618C:G8
1045	5/15/98	1488	294	RTA00000622F.b.17.1	M00007012B:D7
1046	5/15/98	1488	295	RTA00000624F.i.07.1	M00005625D:C3
1047	5/15/98	1488	296	RTA00000619F.c.01.1	M00006754B:D5
1048	5/15/98	1488	297	RTA00000621F.a.07.1	M00006926A:H11
1049	5/15/98	1488	298	RTA00000620F.d.21.1	M00006855C:H2
1050	5/15/98	1488	299	RTA00000616F.c.15.1	M00005383D:E7
1051	5/15/98	1488	300	RTA00000619F.n.19.4	M00006822A:D7
1052	5/15/98	1488	301	RTA00000615F.l.09.1	M00005349B:G1
1053	5/15/98	1488	302	RTA00000626F.b.04.1	M00006631D:B2
1054	5/15/98	1488	303	RTA00000617F.j.23.1	M00005491B:C3
1055	5/15/98	1488	304	RTA00000615F.k.14.1	M00005333C:C8
1056	5/15/98	1488	305	RTA00000616F.l.07.1	M00005419A:D5
1057	5/15/98	1488	306	RTA00000619F.d.04.1	M00006758A:B12
1058	5/15/98	1488	307	RTA00000622F.o.15.1	M00007093A:F9
1059	5/15/98	1488	308	RTA00000625F.m.11.1	M00006594D:F9
1060	5/15/98	1488	309	RTA00000619F.e.10.1	M00006763B:B11
1061	5/15/98	1488	310	RTA00000617F.n.15.1	M00005508B:B4
1062	5/15/98	1488	311	RTA00000615F.n.22.1	M00005359D:G7
1063	5/15/98	1488	312	RTA00000622F.j.21.1	M00007058A:C2
1064	5/15/98	1488	313	RTA00000625F.c.09.1	M00005722A:E9
1065	5/15/98	1488	314	RTA00000591F.m.01.1	M00005510B:D6
1066	5/15/98	1488	315	RTA00000617F.n.14.1	M00005508A:H1
1067	5/15/98	1488	316	RTA00000624F.p.18.1	M00005703A:C8
1068	5/15/98	1488	317	RTA00000623F.j.10.2	M00007163B:A12
1069	5/15/98	1488	318	RTA00000591F.e.20.1	M00005450B:B1
1070	5/15/98	1488	319	RTA00000615F.i.11.1	M00005294C:G8
1071	5/15/98	1488	320	RTA00000622F.p.12.1	M00007099C:F9
1072	5/15/98	1488	321	RTA00000619F.j.22.1	M00006800C:G8
1073	5/15/98	1488	322	RTA00000621F.g.12.1	M00006953D:H11
1074	5/15/98	1488	323	RTA00000617F.m.14.1	M00005505A:C8
1075	5/15/98	1488	324	RTA00000619F.k.06.1	M00006805A:H9
1076	5/15/98	1488	325	RTA00000616F.k.18.1	M00005417C:E10
1077	5/15/98	1488	326	RTA00000625F.d.04.1	M00005743B:F2
1078	5/15/98	1488	327	RTA00000626F.b.06.1	M00006631D:E9
1079	5/15/98	1488	328	RTA00000621F.p.15.1	M00006997B:E6

Priority Appln Information

SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
1080	5/15/98	1488	329	RTA00000618F.d.19.1	M00006681C:G4
1081	5/15/98	1488	330	RTA00000618F.a.02.1	M00006665B:D10
1082	5/15/98	1488	331	RTA00000592F.f.15.1	M00006577B:H12
1083	5/15/98	1488	332	RTA00000619F.d.12.1	M00006758D:C1
1084	5/15/98	1488	333	RTA00000624F.d.08.1	M00005571A:E11
1085	5/15/98	1488	334	RTA00000620F.o.15.1	M00006919B:C3
1086	5/15/98	1488	335	RTA00000620F.e.03.1	M00006859A:F6
1087	5/15/98	1488	336	RTA00000622F.a.24.1	M00007010B:C11
1088	5/15/98	1488	337	RTA00000619F.n.04.2	M00006819A:D10
1089	5/15/98	1488	338	RTA00000616F.d.16.1	M00005388D:F9
1090	5/15/98	1488	339	RTA00000622F.n.15.1	M00007085A:B7
1091	5/15/98	1488	340	RTA00000619F.i.04.1	M00006789C:F4
1092	5/15/98	1488	341	RTA00000617F.i.13.1	M00005484A:D9
1093	5/15/98	1488	342	RTA00000616F.l.11.1	M00005419C:D9
1094	5/15/98	1488	343	RTA00000617F.b.18.1	M00005454C:H12
1095	5/15/98	1488	344	RTA00000618F.j.01.1	M00006705B:D2
1096	5/15/98	1488	345	RTA00000618F.k.24.1	M00006717A:D4
1097	5/15/98	1488	346	RTA00000618F.c.05.1	M00006676D:D11
1098	5/15/98	1488	347	RTA00000619F.g.08.1	M00006777B:D10
1099	5/15/98	1488	348	RTA00000618F.n.04.1	M00006727B:E9
1100	5/15/98	1488	349	RTA00000617F.i.09.1	M00005483D:A12
1101	5/15/98	1488	350	RTA00000617F.l.04.1	M00005497C:C7
1102	5/15/98	1488	351	RTA00000619F.n.17.4	M00006821C:C10
1103	5/15/98	1488	352	RTA00000622F.l.09.1	M00007065D:C1
1104	5/15/98	1488	353	RTA00000623F.j.03.2	M00007161A:H3
1105	5/15/98	1488	354	RTA00000615F.m.17.1	M00005356A:D9
1106	5/15/98	1488	355	RTA00000616F.g.13.1	M00005400A:D2
1107	5/15/98	1488	356	RTA00000615F.f.15.1	M00004999D:E1
1108	5/15/98	1488	357	RTA00000591F.f.15.1	M00005455A:D1
1109	5/15/98	1488	358	RTA00000592F.g.07.1	M00006596A:F7
1110	5/15/98	1488	359	RTA00000625F.o.16.1	M00006615D:F4
1111	5/15/98	1488	360	RTA00000622F.f.13.1	M00007033D:F4
1112	5/15/98	1488	361	RTA00000619F.p.02.3	M00006826B:H3
1113	5/15/98	1488	362	RTA00000625F.h.11.1	M00005812C:F10
1114	5/15/98	1488	363	RTA00000591F.i.05.1	M00005477C:D8
1115	5/15/98	1488	364	RTA00000622F.j.07.1	M00007053B:C7
1116	5/15/98	1488	365	RTA00000619F.k.01.1	M00006801A:G5
1117	5/15/98	1488	366	RTA00000619F.b.24.1	M00006754B:D5
1118	5/15/98	1488	367	RTA00000619F.b.16.1	M00006751A:F3
1119	5/15/98	1488	368	RTA00000618F.p.04.1	M00006738A:E5

Priority Appln Information

SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
1120	5/15/98	1488	369	RTA00000615F.k.18.1	M00005342A:D4
1121	5/15/98	1488	370	RTA00000618F.g.23.1	M00006695B:F8
1122	5/15/98	1488	371	RTA00000618F.n.14.1	M00006728D:G10
1123	5/15/98	1488	372	RTA00000619F.e.23.1	M00006765B:H6
1124	5/15/98	1488	373	RTA00000617F.j.06.1	M00005487A:H1
1125	5/15/98	1488	374	RTA00000622F.f.06.1	M00007033A:H5
1126	5/15/98	1488	375	RTA00000622F.e.09.1	M00007030C:F8
1127	5/15/98	1488	376	RTA00000624F.k.11.1	M00005635C:F11
1128	5/15/98	1488	377	RTA00000619F.a.24.1	M00006745A:A1
1129	5/15/98	1488	378	RTA00000625F.i.03.1	M00005818C:G1
1130	5/15/98	1488	379	RTA00000590F.l.10.1	M00005352D:E6
1131	5/15/98	1488	380	RTA00000623F.d.12.1	M00007122B:A11
1132	5/15/98	1488	381	RTA00000622F.o.05.1	M00007090B:A2
1133	5/15/98	1488	382	RTA00000623F.n.07.1	M00007200B:C2
1134	5/15/98	1488	383	RTA00000621F.k.10.1	M00006973C:E11
1135	5/15/98	1488	384	RTA00000616F.b.05.1	M00005377A:A4
1136	5/15/98	1488	385	RTA00000619F.p.11.4	M00006828D:C12
1137	5/15/98	1488	386	RTA00000616F.d.15.1	M00005388D:B11
1138	5/15/98	1488	387	RTA00000615F.b.07.1	M00004839C:B1
1139	5/15/98	1488	388	RTA00000619F.f.19.1	M00006771A:E6
1140	5/15/98	1488	389	RTA00000621F.l.06.1	M00006976C:E9
1141	5/15/98	1488	390	RTA00000624F.m.08.1	M00005646C:B9
1142	5/15/98	1488	391	RTA00000617F.k.13.1	M00005493B:E1
1143	5/15/98	1488	392	RTA00000592F.h.07.1	M00006630B:H6
1144	5/15/98	1488	393	RTA00000619F.f.24.1	M00006771B:F3
1145	5/15/98	1488	394	RTA00000622F.e.20.1	M00007032A:F11
1146	5/15/98	1488	395	RTA00000623F.h.23.1	M00007152A:B4
1147	5/15/98	1488	396	RTA00000626F.b.20.1	M00006635C:B10
1148	5/15/98	1488	397	RTA00000623F.n.03.1	M00007199D:B7
1149	5/15/98	1488	398	RTA00000625F.i.02.1	M00005818C:E8
1150	5/15/98	1488	399	RTA00000622F.i.08.1	M00007047B:D1
1151	5/15/98	1488	400	RTA00000621F.c.23.1	M00006937B:G9
1152	5/15/98	1488	401	RTA00000619F.f.11.1	M00006769D:A4
1153	5/15/98	1488	402	RTA00000621F.b.14.1	M00006934A:G2
1154	5/15/98	1488	403	RTA00000621F.g.10.1	M00006953B:H10
1155	5/15/98	1488	404	RTA00000619F.p.22.3	M00006832A:F5
1156	5/15/98	1488	405	RTA00000590F.p.23.1	M00005399D:B2
1157	5/15/98	1488	406	RTA00000621F.m.23.1	M00006987B:F4
1158	5/15/98	1488	407	RTA00000592F.d.20.1	M00005772A:F3
1159	5/15/98	1488	408	RTA00000624F.m.14.1	M00005647D:D9

Priority Appln Information					
SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
1160	5/15/98	1488	409	RTA00000617F.a.08.1	M00005448D:E8
1161	5/15/98	1488	410	RTA00000620F.i.04.1	M00006877B:E5
1162	5/15/98	1488	411	RTA00000623F.l.12.1	M00007188A:D3
1163	5/15/98	1488	412	RTA00000591F.b.02.1	M00005411D:E5
1164	5/15/98	1488	413	RTA00000623F.h.07.1	M00007146D:G1
1165	5/15/98	1488	414	RTA00000624F.p.21.1	M00005703C:B1
1166	5/15/98	1488	415	RTA00000623F.j.09.2	M00007163A:F11
1167	5/15/98	1488	416	RTA00000623F.l.17.1	M00007189D:A9
1168	5/15/98	1488	417	RTA00000619F.p.18.3	M00006831B:B4
1169	5/15/98	1488	418	RTA00000622F.h.06.1	M00007041B:G1
1170	5/15/98	1488	419	RTA00000591F.m.20.1	M00005519C:F8
1171	5/15/98	1488	420	RTA00000623F.h.10.1	M00007148B:C6
1172	5/15/98	1488	421	RTA00000619F.i.10.1	M00006790D:A5
1173	5/15/98	1488	422	RTA00000625F.b.13.1	M00005711A:H1
1174	5/15/98	1488	423	RTA00000623F.e.16.1	M00007129A:E4
1175	5/15/98	1488	424	RTA00000625F.k.12.1	M00006582D:E5
1176	5/15/98	1488	425	RTA00000624F.i.09.1	M00005626A:B11
1177	5/15/98	1488	426	RTA00000625F.k.09.1	M00006582A:B9
1178	5/15/98	1488	427	RTA00000622F.k.10.1	M00007062A:D3
1179	5/15/98	1488	428	RTA00000616F.h.12.1	M00005403D:E11
1180	5/15/98	1488	429	RTA00000623F.k.07.1	M00007170D:A10
1181	5/15/98	1488	430	RTA00000620F.p.18.1	M00006923B:H8
1182	5/15/98	1488	431	RTA00000620F.e.01.1	M00006855D:H2
1183	5/15/98	1488	432	RTA00000616F.b.10.1	M00005377D:F11
1184	5/15/98	1488	433	RTA00000615F.d.06.1	M00004858D:E6
1185	5/15/98	1488	434	RTA00000592F.h.23.1	M00006640B:H9
1186	5/15/98	1488	435	RTA00000622F.e.07.1	M00007030A:G1
1187	5/15/98	1488	436	RTA00000617F.f.23.2	M00005473D:E10
1188	5/15/98	1488	437	RTA00000620F.h.10.1	M00006875A:A2
1189	5/15/98	1488	438	RTA00000615F.g.19.1	M00005009B:A2
1190	5/15/98	1488	439	RTA00000626F.b.09.1	M00006633C:E11
1191	5/15/98	1488	440	RTA00000626F.e.10.1	M00006644D:C2
1192	5/15/98	1488	441	RTA00000591F.a.08.1	M00005404C:F2
1193	5/15/98	1488	442	RTA00000622F.j.09.1	M00007053B:H3
1194	5/15/98	1488	443	RTA00000591F.n.01.1	M00005524C:B1
1195	5/15/98	1488	444	RTA00000623F.e.12.1	M00007127B:A4
1196	5/15/98	1488	445	RTA00000625F.p.01.1	M00006617B:D9
1197	5/15/98	1488	446	RTA00000623F.f.13.1	M00007134C:F7
1198	5/15/98	1488	447	RTA00000620F.c.24.1	M00006850C:D9
1199	5/15/98	1488	448	RTA00000618F.i.21.1	M00006704D:D3

Priority Appln Information					
SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
1200	5/15/98	1488	449	RTA00000617F.l.08.1	M00005497C:E3
1201	5/15/98	1488	450	RTA00000619F.l.07.1	M00006810D:A5
1202	5/15/98	1488	451	RTA00000624F.n.16.1	M00005655B:C2
1203	5/15/98	1488	452	RTA00000621F.n.24.1	M00006991D:G7
1204	5/15/98	1488	453	RTA00000621F.c.20.1	M00006937B:F7
1205	5/15/98	1488	454	RTA00000623F.g.07.1	M00007140D:C12
1206	5/15/98	1488	455	RTA00000591F.i.17.1	M00005481C:A5
1207	5/15/98	1488	456	RTA00000626F.b.22.1	M00006636A:B8
1208	5/15/98	1488	457	RTA00000620F.i.16.1	M00006882D:F3
1209	5/15/98	1488	458	RTA00000623F.f.21.1	M00007137D:C10
1210	5/15/98	1488	459	RTA00000591F.f.18.1	M00005455A:G3
1211	5/15/98	1488	460	RTA00000616F.e.10.1	M00005392C:C4
1212	5/15/98	1488	461	RTA00000619F.l.22.1	M00006814A:F7
1213	5/15/98	1488	462	RTA00000591F.a.20.1	M00005411A:C7
1214	5/15/98	1488	463	RTA00000623F.b.23.1	M00007112B:C6
1215	5/15/98	1488	464	RTA00000621F.n.15.1	M00006990B:H9
1216	5/15/98	1488	465	RTA00000620F.m.15.1	M00006907D:C7
1217	5/15/98	1488	466	RTA00000591F.a.15.1	M00005406D:B8
1218	5/15/98	1488	467	RTA00000620F.p.05.1	M00006921B:C2
1219	5/15/98	1488	468	RTA00000620F.h.04.1	M00006873B:G11
1220	5/15/98	1488	469	RTA00000592F.g.15.1	M00006615B:F5
1221	5/15/98	1488	470	RTA00000625F.b.21.1	M00005720A:D3
1222	5/15/98	1488	471	RTA00000621F.n.18.1	M00006991A:E7
1223	5/15/98	1488	472	RTA00000591F.h.08.1	M00005470B:E1
1224	5/15/98	1488	473	RTA00000591F.j.13.1	M00005486C:B3
1225	5/15/98	1488	474	RTA00000626F.e.08.1	M00006644C:E9
1226	5/15/98	1488	475	RTA00000623F.d.23.1	M00007124C:A11
1227	5/15/98	1488	476	RTA00000592F.g.04.1	M00006592A:D3
1228	5/15/98	1488	477	RTA00000590F.p.22.1	M00005399B:F2
1229	5/15/98	1488	478	RTA00000590F.n.10.1	M00005377A:D5
1230	5/15/98	1488	479	RTA00000623F.j.16.2	M00007166B:E6
1231	5/15/98	1488	480	RTA00000619F.j.19.1	M00006797B:D12
1232	5/15/98	1488	481	RTA00000621F.c.12.1	M00006936B:F10
1233	5/15/98	1488	482	RTA00000618F.b.17.1	M00006674B:F4
1234	5/15/98	1488	483	RTA00000621F.p.08.1	M00006995D:A3
1235	5/15/98	1488	484	RTA00000626F.b.13.1	M00006634B:C2
1236	5/15/98	1488	485	RTA00000623F.e.18.1	M00007129A:G10
1237	5/15/98	1488	486	RTA00000625F.j.01.1	M00005827B:H8
1238	5/15/98	1488	487	RTA00000625F.o.18.1	M00006616C:H9
1239	5/15/98	1488	488	RTA00000623F.k.13.1	M00007172D:C8

Priority Appln Information

SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
1240	5/15/98	1488	489	RTA00000623F.k.10.1	M00007172A:A5
1241	5/15/98	1488	490	RTA00000626F.d.12.1	M00006641A:B3
1242	5/15/98	1488	491	RTA00000626F.d.23.1	M00006643A:E10
1243	5/15/98	1488	492	RTA00000623F.j.02.1	M00007160C:B8
1244	5/15/98	1488	493	RTA00000618F.o.07.1	M00006735A:H2
1245	5/15/98	1488	494	RTA00000620F.a.08.1	M00006833B:E11
1246	5/15/98	1488	495	RTA00000623F.d.11.1	M00007122A:G11
1247	5/15/98	1488	496	RTA00000623F.h.16.1	M00007149D:G6
1248	5/15/98	1488	497	RTA00000624F.a.17.1	M00005535B:F6
1249	5/15/98	1488	498	RTA00000621F.n.17.1	M00006990D:D6
1250	5/15/98	1488	499	RTA00000625F.n.02.1	M00006601C:E6
1251	5/15/98	1488	500	RTA00000591F.n.05.1	M00005530B:E4
1252	5/15/98	1488	501	RTA00000622F.n.09.1	M00007084B:A5
1253	5/15/98	1488	502	RTA00000617F.l.05.1	M00005497C:C10
1254	5/15/98	1488	503	RTA00000623F.j.08.2	M00007163A:B10
1255	5/15/98	1488	504	RTA00000626F.g.02.1	M00006656C:C10
1256	5/15/98	1488	505	RTA00000617F.l.06.1	M00005497C:C12
1257	5/15/98	1488	506	RTA00000592F.a.06.1	M00005635B:A6
1258	5/15/98	1488	507	RTA00000591F.j.11.1	M00005485C:A3
1259	5/15/98	1488	508	RTA00000622F.h.21.1	M00007046A:D2
1260	5/15/98	1488	509	RTA00000591F.h.03.1	M00005468D:F4
1261	5/15/98	1488	510	RTA00000620F.g.22.1	M00006872B:G1
1262	5/15/98	1488	511	RTA00000617F.c.05.1	M00005456B:E3
1263	5/15/98	1488	512	RTA00000616F.e.15.3	M00005393A:E11
1264	5/15/98	1488	513	RTA00000616F.f.15.3	M00005396B:C4
1265	5/15/98	1488	514	RTA00000622F.c.11.1	M00007014D:C5
1266	5/15/98	1488	515	RTA00000621F.f.12.1	M00006949B:F3
1267	5/15/98	1488	516	RTA00000603F.c.23.1	M00006720C:C11
1268	5/15/98	1488	517	RTA00000640F.a.23.1	M00005817D:E12
1269	5/15/98	1488	518	RTA00000618F.h.15.1	M00006699B:C7
1270	5/15/98	1488	519	RTA00000616F.p.22.1	M00005446C:D12
1271	5/15/98	1488	520	RTA00000621F.p.18.1	M00006997D:B3
1272	5/15/98	1488	521	RTA00000615F.b.10.1	M00004840C:H5
1273	5/15/98	1488	522	RTA00000590F.l.05.1	M00005332A:H10
1274	5/15/98	1488	523	RTA00000619F.g.06.1	M00006774D:C1
1275	5/15/98	1488	524	RTA00000619F.c.24.1	M00006757D:E4
1276	5/15/98	1488	525	RTA00000619F.f.23.1	M00006771B:A9
1277	5/15/98	1489	1	RTA00000639F.e.11.1	M00023011A:A6
1278	5/15/98	1489	2	RTA00000631F.e.20.1	M00022386B:D11
1279	5/15/98	1489	3	RTA00000631F.e.15.1	M00022386A:A7

Priority Appln Information

SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
1280	5/15/98	1489	4	RTA00000639F.d.02.1	M00022993A:F2
1281	5/15/98	1489	5	RTA00000639F.f.10.1	M00023021A:H8
1282	5/15/98	1489	6	RTA00000628F.e.17.1	M00021862D:F1
1283	5/15/98	1489	7	RTA00000627F.p.18.1	M00021670B:G11
1284	5/15/98	1489	8	RTA00000633F.o.22.1	M00022901D:C9
1285	5/15/98	1489	9	RTA00000632F.b.04.1	M00022493C:B7
1286	5/15/98	1489	10	RTA00000639F.g.14.1	M00023034C:E5
1287	5/15/98	1489	11	RTA00000631F.p.10.1	M00022474A:H9
1288	5/15/98	1489	12	RTA00000628F.c.20.1	M00021828A:C8
1289	5/15/98	1489	13	RTA00000630F.o.20.1	M00022289A:D5
1290	5/15/98	1489	14	RTA00000630F.e.18.1	M00022202C:F11
1291	5/15/98	1489	15	RTA00000628F.b.18.1	M00021690C:B7
1292	5/15/98	1489	16	RTA00000590F.j.07.1	M00004873C:C10
1293	5/15/98	1489	17	RTA00000630F.a.19.1	M00022169D:C2
1294	5/15/98	1489	18	RTA00000630F.i.02.1	M00022226D:A7
1295	5/15/98	1489	19	RTA00000631F.a.22.1	M00022364C:G12
1296	5/15/98	1489	20	RTA00000630F.l.19.1	M00022255D:E3
1297	5/15/98	1489	21	RTA00000633F.a.15.1	M00022661D:H1
1298	5/15/98	1489	22	RTA00000639F.c.06.1	M00022972D:C10
1299	5/15/98	1489	23	RTA00000630F.p.23.1	M00022305C:A1
1300	5/15/98	1489	24	RTA00000629F.o.19.2	M00022150D:D11
1301	5/15/98	1489	25	RTA00000632F.j.18.1	M00022599D:E7
1302	5/15/98	1489	26	RTA00000630F.o.21.1	M00022289D:B6
1303	5/15/98	1489	27	RTA00000629F.l.02.1	M00022117C:G7
1304	5/15/98	1489	28	RTA00000628F.e.13.1	M00021861C:A2
1305	5/15/98	1489	29	RTA00000632F.j.02.1	M00022587C:G4
1306	5/15/98	1489	30	RTA00000639F.e.01.1	M00023003C:A3
1307	5/15/98	1489	31	RTA00000631F.f.01.1	M00022386C:D7
1308	5/15/98	1489	32	RTA00000630F.p.22.1	M00022305A:H11
1309	5/15/98	1489	33	RTA00000628F.l.05.1	M00021946D:C11
1310	5/15/98	1489	34	RTA00000629F.b.06.1	M00022049A:A2
1311	5/15/98	1489	35	RTA00000628F.g.20.1	M00021892B:H3
1312	5/15/98	1489	36	RTA00000628F.n.11.1	M00021982C:F8
1313	5/15/98	1489	37	RTA00000593F.e.21.1	M00022074D:F11
1314	5/15/98	1489	38	RTA00000633F.c.07.1	M00022674D:G4
1315	5/15/98	1489	39	RTA00000629F.k.17.1	M00022110A:E4
1316	5/15/98	1489	40	RTA00000633F.a.11.1	M00022661B:E11
1317	5/15/98	1489	41	RTA00000629F.e.16.1	M00022068D:D12
1318	5/15/98	1489	42	RTA00000631F.c.01.1	M00022372B:D3
1319	5/15/98	1489	43	RTA00000630F.n.22.1	M00022278C:E3

Priority Appln Information					
SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
1320	5/15/98	1489	44	RTA00000628F.j.14.1	M00021927B:F1
1321	5/15/98	1489	45	RTA00000631F.l.14.1	M00022449D:F6
1322	5/15/98	1489	46	RTA00000631F.j.06.1	M00022423B:D3
1323	5/15/98	1489	47	RTA00000630F.b.17.1	M00022175A:A11
1324	5/15/98	1489	48	RTA00000593F.i.08.2	M00022218C:B6
1325	5/15/98	1489	49	RTA00000631F.l.12.1	M00022449C:B1
1326	5/15/98	1489	50	RTA00000628F.m.20.1	M00021978A:F8
1327	5/15/98	1489	51	RTA00000632F.c.02.1	M00022504B:E3
1328	5/15/98	1489	52	RTA00000632F.h.03.1	M00022565C:H2
1329	5/15/98	1489	53	RTA00000592F.l.16.1	M00007977C:E8
1330	5/15/98	1489	54	RTA00000630F.c.01.1	M00022176A:E8
1331	5/15/98	1489	55	RTA00000593F.e.19.1	M00022071C:D9
1332	5/15/98	1489	56	RTA00000632F.a.10.1	M00022490C:C1
1333	5/15/98	1489	57	RTA00000632F.f.12.1	M00022536B:B4
1334	5/15/98	1489	58	RTA00000630F.m.06.1	M00022259B:G2
1335	5/15/98	1489	59	RTA00000629F.e.07.1	M00022067D:C5
1336	5/15/98	1489	60	RTA00000627F.k.19.1	M00021618D:D7
1337	5/15/98	1489	61	RTA00000629F.o.15.2	M00022149B:D5
1338	5/15/98	1489	62	RTA00000592F.o.02.1	M00008015D:E9
1339	5/15/98	1489	63	RTA00000628F.h.18.1	M00021906C:G11
1340	5/15/98	1489	64	RTA00000632F.h.23.1	M00022578D:A8
1341	5/15/98	1489	65	RTA00000639F.h.18.1	M00023103A:E11
1342	5/15/98	1489	66	RTA00000630F.p.11.1	M00022296B:C11
1343	5/15/98	1489	67	RTA00000632F.o.18.1	M00022651D:C6
1344	5/15/98	1489	68	RTA00000629F.a.24.1	M00022032A:E7
1345	5/15/98	1489	69	RTA00000633F.f.19.1	M00022708D:G10
1346	5/15/98	1489	70	RTA00000627F.n.04.1	M00021640A:G3
1347	5/15/98	1489	71	RTA00000630F.p.04.1	M00022294A:D11
1348	5/15/98	1489	72	RTA00000633F.h.21.1	M00022730A:E4
1349	5/15/98	1489	73	RTA00000632F.d.12.1	M00022515D:C4
1350	5/15/98	1489	74	RTA00000627F.o.23.1	M00021660C:G4
1351	5/15/98	1489	75	RTA00000628F.j.12.1	M00021927A:C11
1352	5/15/98	1489	76	RTA00000632F.f.03.1	M00022531B:D7
1353	5/15/98	1489	77	RTA00000593F.o.03.1	M00022549B:G7
1354	5/15/98	1489	78	RTA00000631F.b.06.1	M00022366B:E9
1355	5/15/98	1489	79	RTA00000633F.g.15.1	M00022716D:D8
1356	5/15/98	1489	80	RTA00000594F.b.04.1	M00022828C:E4
1357	5/15/98	1489	81	RTA00000623F.o.14.1	M00007929B:H10
1358	5/15/98	1489	82	RTA00000632F.g.02.1	M00022551A:G3
1359	5/15/98	1489	83	RTA00000629F.h.11.1	M00022084B:F4

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SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
1360	5/15/98	1489	84	RTA00000632F.b.17.1	M00022498C:C8
1361	5/15/98	1489	85	RTA00000631F.m.04.1	M00022452C:B3
1362	5/15/98	1489	86	RTA00000627F.k.02.1	M00021614B:G12
1363	5/15/98	1489	87	RTA00000631F.n.06.1	M00022457C:B1
1364	5/15/98	1489	88	RTA00000633F.i.15.1	M00022737A:C8
1365	5/15/98	1489	89	RTA00000639F.f.11.1	M00023023A:B12
1366	5/15/98	1489	90	RTA00000630F.j.04.1	M00022236D:A3
1367	5/15/98	1489	91	RTA00000630F.j.14.1	M00022239D:A7
1368	5/15/98	1489	92	RTA00000627F.k.24.1	M00021619B:G10
1369	5/15/98	1489	93	RTA00000630F.j.13.1	M00022239B:B7
1370	5/15/98	1489	94	RTA00000629F.j.07.1	M00022094B:G10
1371	5/15/98	1489	95	RTA00000628F.m.02.1	M00021964A:C4
1372	5/15/98	1489	96	RTA00000639F.g.08.1	M00023033A:E10
1373	5/15/98	1489	97	RTA00000628F.i.05.1	M00021910A:C10
1374	5/15/98	1489	98	RTA00000639F.a.16.1	M00022953B:C7
1375	5/15/98	1489	99	RTA00000633F.c.21.1	M00022682A:F12
1376	5/15/98	1489	100	RTA00000639F.b.03.1	M00022960D:E8
1377	5/15/98	1489	101	RTA00000633F.b.05.1	M00022666C:H11
1378	5/15/98	1489	102	RTA00000631F.h.05.2	M00022412A:C8
1379	5/15/98	1489	103	RTA00000628F.h.14.1	M00021905B:A1
1380	5/15/98	1489	104	RTA00000633F.b.03.1	M00022666B:E12
1381	5/15/98	1489	105	RTA00000632F.g.08.1	M00022556B:G2
1382	5/15/98	1489	106	RTA00000593F.g.18.1	M00022171D:B8
1383	5/15/98	1489	107	RTA00000592F.p.10.1	M00008061A:F2
1384	5/15/98	1489	108	RTA00000639F.f.19.1	M00023028A:A2
1385	5/15/98	1489	109	RTA00000630F.f.04.1	M00022206B:G6
1386	5/15/98	1489	110	RTA00000633F.o.02.1	M00022893C:H11
1387	5/15/98	1489	111	RTA00000632F.b.12.1	M00022495C:G5
1388	5/15/98	1489	112	RTA00000632F.g.20.1	M00022562C:H10
1389	5/15/98	1489	113	RTA00000593F.f.12.1	M00022109B:A11
1390	5/15/98	1489	114	RTA00000633F.c.19.1	M00022681C:H2
1391	5/15/98	1489	115	RTA00000629F.e.12.1	M00022068B:H11
1392	5/15/98	1489	116	RTA00000629F.j.01.1	M00022093A:A5
1393	5/15/98	1489	117	RTA00000627F.m.07.1	M00021625A:C7
1394	5/15/98	1489	118	RTA00000633F.n.12.1	M00022856C:B11
1395	5/15/98	1489	119	RTA00000632F.e.15.1	M00022527D:B3
1396	5/15/98	1489	120	RTA00000632F.a.09.1	M00022490C:A8
1397	5/15/98	1489	121	RTA00000631F.k.12.1	M00022439A:E7
1398	5/15/98	1489	122	RTA00000628F.c.02.1	M00021694B:A7
1399	5/15/98	1489	123	RTA00000632F.f.10.1	M00022535D:B11

Priority Appln Information					
SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
1400	5/15/98	1489	124	RTA00000631F.f.11.1	M00022389B:H4
1401	5/15/98	1489	125	RTA00000633F.n.06.1	M00022854D:H7
1402	5/15/98	1489	126	RTA00000628F.l.14.1	M00021954A:A3
1403	5/15/98	1489	127	RTA00000632F.k.10.1	M00022607B:A4
1404	5/15/98	1489	128	RTA00000629F.b.08.1	M00022049A:D6
1405	5/15/98	1489	129	RTA00000629F.l.10.1	M00022122D:D6
1406	5/15/98	1489	130	RTA00000632F.c.04.1	M00022505D:A12
1407	5/15/98	1489	131	RTA00000630F.h.22.1	M00022221D:E8
1408	5/15/98	1489	132	RTA00000593F.e.18.1	M00022070B:C10
1409	5/15/98	1489	133	RTA00000630F.l.02.1	M00022252C:E6
1410	5/15/98	1489	134	RTA00000632F.k.20.1	M00022613D:C4
1411	5/15/98	1489	135	RTA00000628F.p.01.1	M00022005C:G3
1412	5/15/98	1489	136	RTA00000631F.l.01.1	M00022444A:A11
1413	5/15/98	1489	137	RTA00000628F.a.16.1	M00021678A:B8
1414	5/15/98	1489	138	RTA00000632F.j.14.1	M00022598A:F11
1415	5/15/98	1489	139	RTA00000628F.e.06.1	M00021859A:D4
1416	5/15/98	1489	140	RTA00000631F.n.08.1	M00022458B:E6
1417	5/15/98	1489	141	RTA00000630F.g.18.1	M00022216D:C1
1418	5/15/98	1489	142	RTA00000628F.m.08.1	M00021967D:E8
1419	5/15/98	1489	143	RTA00000592F.k.12.1	M00007961A:B1
1420	5/15/98	1489	144	RTA00000631F.e.22.1	M00022386C:A4
1421	5/15/98	1489	145	RTA00000628F.b.21.1	M00021692A:E3
1422	5/15/98	1489	146	RTA00000631F.d.13.1	M00022381C:C12
1423	5/15/98	1489	147	RTA00000629F.p.04.2	M00022153D:D11
1424	5/15/98	1489	148	RTA00000628F.b.01.1	M00021680B:C1
1425	5/15/98	1489	149	RTA00000630F.c.19.1	M00022183A:G3
1426	5/15/98	1489	150	RTA00000593F.l.06.1	M00022404D:G5
1427	5/15/98	1489	151	RTA00000628F.c.11.1	M00021698B:B12
1428	5/15/98	1489	152	RTA00000630F.l.05.1	M00022253B:E6
1429	5/15/98	1489	153	RTA00000628F.b.22.1	M00021692C:E6
1430	5/15/98	1489	154	RTA00000633F.g.19.1	M00022718D:G5
1431	5/15/98	1489	155	RTA00000629F.p.10.2	M00022157B:A10
1432	5/15/98	1489	156	RTA00000628F.b.17.1	M00021690B:B6
1433	5/15/98	1489	157	RTA00000627F.j.18.1	M00021611D:H3
1434	5/15/98	1489	158	RTA00000627F.p.10.1	M00021665A:D4
1435	5/15/98	1489	159	RTA00000628F.e.15.1	M00021862A:A4
1436	5/15/98	1489	160	RTA00000630F.h.12.1	M00022218D:B12
1437	5/15/98	1489	161	RTA00000628F.i.08.1	M00021912B:H11
1438	5/15/98	1489	162	RTA00000630F.c.09.1	M00022178D:H1
1439	5/15/98	1489	163	RTA00000633F.o.08.1	M00022897A:F4

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SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
1440	5/15/98	1489	164	RTA00000628F.i.07.1	M00021947A:C1
1441	5/15/98	1489	165	RTA00000628F.n.18.1	M00021983D:B10
1442	5/15/98	1489	166	RTA00000630F.i.10.1	M00022254C:D8
1443	5/15/98	1489	167	RTA00000632F.i.01.1	M00022578D:F3
1444	5/15/98	1489	168	RTA00000629F.j.04.1	M00022093D:B10
1445	5/15/98	1489	169	RTA00000627F.j.16.1	M00021611D:D5
1446	5/15/98	1489	170	RTA00000629F.e.20.1	M00022069D:G2
1447	5/15/98	1489	171	RTA00000632F.h.21.1	M00022578C:B7
1448	5/15/98	1489	172	RTA00000629F.p.09.2	M00022157A:F12
1449	5/15/98	1489	173	RTA00000631F.d.22.1	M00022382D:H11
1450	5/15/98	1489	174	RTA00000630F.i.14.1	M00022255A:C8
1451	5/15/98	1489	175	RTA00000633F.h.12.1	M00022725C:E9
1452	5/15/98	1489	176	RTA00000630F.i.11.1	M00022231C:A4
1453	5/15/98	1489	177	RTA00000632F.a.05.1	M00022489C:A8
1454	5/15/98	1489	178	RTA00000629F.g.21.1	M00022081C:G11
1455	5/15/98	1489	179	RTA00000632F.e.12.1	M00022527A:E5
1456	5/15/98	1489	180	RTA00000632F.g.11.1	M00022557B:A8
1457	5/15/98	1489	181	RTA00000629F.f.22.1	M00022075D:F5
1458	5/15/98	1489	182	RTA00000630F.j.12.1	M00022239A:A10
1459	5/15/98	1489	183	RTA00000629F.h.16.1	M00022085C:C4
1460	5/15/98	1489	184	RTA00000633F.j.13.1	M00022745A:B4
1461	5/15/98	1489	185	RTA00000633F.h.10.1	M00022725C:B3
1462	5/15/98	1489	186	RTA00000632F.b.05.1	M00022493C:C6
1463	5/15/98	1489	187	RTA00000633F.h.18.1	M00022727B:C5
1464	5/15/98	1489	188	RTA00000633F.h.13.1	M00022726A:A6
1465	5/15/98	1489	189	RTA00000630F.i.09.1	M00022231A:F12
1466	5/15/98	1489	190	RTA00000593F.h.03.1	M00022176C:A8
1467	5/15/98	1489	191	RTA00000632F.c.18.1	M00022509D:F6
1468	5/15/98	1489	192	RTA00000593F.f.03.1	M00022081C:B11
1469	5/15/98	1489	193	RTA00000627F.n.21.1	M00021653A:G7
1470	5/15/98	1489	194	RTA00000631F.g.18.2	M00022407C:H11
1471	5/15/98	1489	195	RTA00000639F.c.14.1	M00022980B:E11
1472	5/15/98	1489	196	RTA00000633F.m.08.1	M00022824C:H11
1473	5/15/98	1489	197	RTA00000627F.m.10.1	M00021629D:D5
1474	5/15/98	1489	198	RTA00000632F.h.20.1	M00022578B:G5
1475	5/15/98	1489	199	RTA00000627F.o.09.1	M00021657B:C8
1476	5/15/98	1489	200	RTA00000632F.j.06.1	M00022594B:H12
1477	5/15/98	1489	201	RTA00000632F.d.07.1	M00022514A:D4
1478	5/15/98	1489	202	RTA00000629F.d.23.1	M00022064C:H7
1479	5/15/98	1489	203	RTA00000629F.m.05.1	M00022128A:D4

Priority Appln Information					
SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
1480	5/15/98	1489	204	RTA00000639F.b.08.1	M00022963A:D11
1481	5/15/98	1489	205	RTA00000627F.l.21.1	M00021624A:D7
1482	5/15/98	1489	206	RTA00000628F.j.16.1	M00021927D:D12
1483	5/15/98	1489	207	RTA00000628F.b.08.1	M00021681C:B10
1484	5/15/98	1489	208	RTA00000630F.e.10.1	M00022199C:F3
1485	5/15/98	1489	209	RTA00000639F.b.21.1	M00022968A:F2
1486	5/15/98	1489	210	RTA00000631F.h.04.1	M00022411D:G9
1487	5/15/98	1489	211	RTA00000639F.c.15.1	M00022980C:A9
1488	5/15/98	1489	212	RTA00000631F.d.11.1	M00022381A:F5
1489	5/15/98	1489	213	RTA00000633F.e.18.1	M00022698C:E6
1490	5/15/98	1489	214	RTA00000615F.e.19.1	M00004875A:G9
1491	5/15/98	1489	215	RTA00000629F.n.11.2	M00022139A:C1
1492	5/15/98	1489	216	RTA00000631F.g.11.2	M00022404B:H5
1493	5/15/98	1489	217	RTA00000630F.o.18.1	M00022288C:D4
1494	5/15/98	1489	218	RTA00000633F.h.22.1	M00022730D:E10
1495	5/15/98	1489	219	RTA00000633F.e.24.1	M00022701B:B12
1496	5/15/98	1489	220	RTA00000633F.o.19.1	M00022900D:E8
1497	5/15/98	1489	221	RTA00000630F.e.04.1	M00022198A:C12
1498	5/15/98	1489	222	RTA00000627F.o.01.1	M00021654C:A2
1499	5/15/98	1489	223	RTA00000629F.k.21.1	M00022114C:B2
1500	5/15/98	1489	224	RTA00000631F.g.04.1	M00022399C:A10
1501	5/15/98	1489	225	RTA00000630F.m.03.1	M00022258C:F6
1502	5/15/98	1489	226	RTA00000629F.i.08.1	M00022090A:G8
1503	5/15/98	1489	227	RTA00000593F.d.02.2	M00021682B:D12
1504	5/15/98	1489	228	RTA00000631F.a.24.1	M00022365A:A1
1505	5/15/98	1489	229	RTA00000629F.p.06.2	M00022154A:C1
1506	5/15/98	1489	230	RTA00000633F.n.09.1	M00022856B:D7
1507	5/15/98	1489	231	RTA00000633F.f.14.1	M00022708A:C8
1508	5/15/98	1489	232	RTA00000629F.k.11.1	M00022106C:F4
1509	5/15/98	1489	233	RTA00000630F.b.02.1	M00022170D:H9
1510	5/15/98	1489	234	RTA00000633F.p.04.1	M00022902D:D3
1511	5/15/98	1489	235	RTA00000633F.n.08.1	M00022856A:D2
1512	5/15/98	1489	236	RTA00000628F.h.06.1	M00021897B:A6
1513	5/15/98	1489	237	RTA00000628F.d.05.1	M00021841C:D7
1514	5/15/98	1489	238	RTA00000627F.l.22.1	M00021624B:A3
1515	5/15/98	1489	239	RTA00000630F.f.19.1	M00022212C:C2
1516	5/15/98	1489	240	RTA00000630F.h.17.1	M00022220C:F8
1517	5/15/98	1489	241	RTA00000632F.i.15.1	M00022583B:E5
1518	5/15/98	1489	242	RTA00000633F.j.15.1	M00022745B:G2
1519	5/15/98	1489	243	RTA00000628F.k.05.1	M00021932C:G10

Priority Appln Information					
SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
1520	5/15/98	1489	244	RTA00000633F.d.04.1	M00022685A:F11
1521	5/15/98	1489	245	RTA00000639F.h.10.1	M00023094A:C4
1522	5/15/98	1489	246	RTA00000632F.f.11.1	M00022535D:C4
1523	5/15/98	1489	247	RTA00000631F.p.20.1	M00022480B:E7
1524	5/15/98	1489	248	RTA00000629F.o.17.2	M00022150A:H6
1525	5/15/98	1489	249	RTA00000592F.l.23.1	M00007986C:C5
1526	5/15/98	1489	250	RTA00000630F.d.10.1	M00022189A:A1
1527	5/15/98	1489	251	RTA00000632F.j.19.1	M00022600C:A6
1528	5/15/98	1489	252	RTA00000633F.n.10.1	M00022856B:F4
1529	5/15/98	1489	253	RTA00000628F.h.13.1	M00021905A:G5
1530	5/15/98	1489	254	RTA00000633F.k.05.1	M00022763A:E10
1531	5/15/98	1489	255	RTA00000633F.i.11.1	M00022735B:B1
1532	5/15/98	1489	256	RTA00000633F.o.20.1	M00022900D:G3
1533	5/15/98	1489	257	RTA00000628F.b.19.1	M00021690D:E5
1534	5/15/98	1489	258	RTA00000627F.p.14.1	M00021667D:E3
1535	5/15/98	1489	259	RTA00000628F.n.15.1	M00021983B:B3
1536	5/15/98	1489	260	RTA00000592F.p.22.1	M00008074D:C1
1537	5/15/98	1489	261	RTA00000628F.m.19.1	M00021977D:E2
1538	5/15/98	1489	262	RTA00000593F.a.05.1	M00008078C:C6
1539	5/15/98	1489	263	RTA00000639F.g.17.1	M00023036D:C4
1540	5/15/98	1489	264	RTA00000632F.j.15.1	M00022599A:C3
1541	5/15/98	1489	265	RTA00000592F.l.04.1	M00007971A:B4
1542	5/15/98	1489	266	RTA00000629F.c.07.1	M00022054D:C5
1543	5/15/98	1489	267	RTA00000592F.l.21.1	M00007985A:B9
1544	5/15/98	1489	268	RTA00000629F.h.15.1	M00022085C:A7
1545	5/15/98	1489	269	RTA00000633F.n.02.1	M00022835C:E6
1546	5/15/98	1489	270	RTA00000630F.n.24.1	M00022278D:F10
1547	5/15/98	1489	271	RTA00000592F.k.09.1	M00007953B:B3
1548	5/15/98	1489	272	RTA00000592F.l.10.1	M00007974B:C11
1549	5/15/98	1489	273	RTA00000628F.k.04.1	M00021932C:C5
1550	5/15/98	1489	274	RTA00000630F.h.24.1	M00022226C:B6
1551	5/15/98	1489	275	RTA00000629F.i.13.1	M00022091B:B7
1552	5/15/98	1489	276	RTA00000630F.b.01.1	M00022170D:H7
1553	5/15/98	1489	277	RTA00000628F.g.13.1	M00021886D:E4
1554	5/15/98	1489	278	RTA00000592F.m.13.1	M00007995D:E6
1555	5/15/98	1489	279	RTA00000633F.h.20.1	M00022728A:A9
1556	5/15/98	1489	280	RTA00000593F.d.08.2	M00021860B:G6
1557	5/15/98	1489	281	RTA00000629F.f.01.1	M00022071B:D5
1558	5/15/98	1489	282	RTA00000632F.i.11.1	M00022582C:E12
1559	5/15/98	1489	283	RTA00000632F.j.24.1	M00022604B:C11

Priority Appln Information

SEQ ID NO:	Filed	Dkt No.	SEQ ID NO:	Sequence Name	Clone Name
1560	5/15/98	1489	284	RTA00000629F.f.03.1	M00022071C:C9
1561	5/15/98	1489	285	RTA00000593F.b.04.1	M00008094A:E10
1562	5/15/98	1489	286	RTA00000628F.l.12.1	M00021952B:F11
1563	5/15/98	1489	287	RTA00000632F.j.12.1	M00022597B:F11
1564	5/15/98	1489	288	RTA00000592F.k.23.1	M00007964B:D10
1565	5/15/98	1489	289	RTA00000632F.g.07.1	M00022556B:C4

Table 1B

SEQ ID NO:	Sample Name	Overlap	Clone Name
1566	803.F11.sp6:165002	VO	M00004236D:E07
1567	180.B11.sp6:135937	VO	M00001453B:F08
1568	1033.D01.sp6:188349	VO	M00001455A:E09
1569	1164.H10.sp6:186952	VO	M00001455A:E09
1570	80.E12.sp6:130267	VNO	
1571	121.C2.sp6:131906	VNO	
1572	1035.D01.sp6:188733	VO	M00003939A:A02
1573	1034.G03.sp6:188579	VNO	
1574	020.C1.sp6:128615	VO	M00003820C:A09
1575	019.B1.sp6:128411	VO	M00003820C:A09
1576	803.F4.sp6:164995	VO	M00004052C:B05
1577	1033.C06.sp6:188342	VO	M00001654D:F06
1578	1035.H07.sp6:188787	VO	M00004034C:F05
1579	396.C9.sp6:149508	VO	M00004034C:F05
1580	396.D9.sp6:149520	VO	M00004035B:F05
1581	1035.B08.sp6:188716	VO	M00004035B:F05
1582	396.H9.sp6:149568	VNO	
1583	1035.D09.sp6:188741	VO	M00004037C:D07
1584	1036.B05.sp6:188905	VO	M00004115C:H04
1585	404.G2.sp6:162929	VNO	
1586	1035.D07.sp6:188739	VO	M00004031D:G02
1587	1034.A05.sp6:188509	VO	M00003829A:B08
1588	395.B5.sp6:149300	VO	M00003829A:B08
1589	1034.F07.sp6:188571	VO	M00003852D:D03
1590	1035.E04.sp6:188748	VO	M00003982A:G03
1591	396.F3.sp6:149538	VO	M00003982A:G03
1592	396.H3.sp6:149562	VO	M00003982B:C10
1593	1035.F04.sp6:188760	VNO	
1594	396.D4.sp6:149515	VO	M00003983A:D02
1595	1035.G04.sp6:188772	VO	M00003983A:D02
1596	396.D5.sp6:149516	VO	M00003985A:C01
1597	1035.B05.sp6:188713	VO	M00003985A:C01
1598	1035.C06.sp6:188726	VO	M00004028C:D01
1599	396.A7.sp6:149482	VNO	
1600	1035.E06.sp6:188750	VO	M00004029C:B03
1601	801.E1.sp6:164692	VO	M00001344D:G11
1602	801.F1.sp6:164704	VO	M00001345A:A12
1603	801.A2.sp6:164645	VNO	
1604	801.B2.sp6:164657	VNO	
1605	801.C2.sp6:164669	VO	M00001347A:G06
1606	801.D2.sp6:164681	VO	M00001347B:H01
1607	801.E2.sp6:164693	VNO	

SEQ ID NO:	Sample Name	Overlap	Clone Name
1608	801.F2.sp6:164705	VNO	
1609	801.A3.sp6:164646	VO	M00001355B:A01
1610	801.B3.sp6:164658	VO	M00001358D:D09
1611	801.C3.sp6:164670	VO	M00001359A:B07
1612	801.D3.sp6:164682	VO	M00001362A:C10
1613	801.E3.sp6:164694	VO	M00001362B:A09
1614	801.G3.sp6:164718	VO	M00001365D:D12
1615	801.H3.sp6:164730	VO	M00001365D:H09
1616	801.A4.sp6:164647	VNO	
1617	801.B4.sp6:164659	VO	M00001370A:G09
1618	801.C4.sp6:164671	VO	M00001370B:B04
1619	801.D4.sp6:164683	VO	M00001370B:B12
1620	801.E4.sp6:164695	VNO	
1621	801.G4.sp6:164719	VO	M00001374D:D09
1622	801.D5.sp6:164684	VO	M00001377C:B08
1623	801.F5.sp6:164708	VNO	
1624	801.G5.sp6:164720	VNO	
1625	801.H5.sp6:164732	VNO	
1626	801.A6.sp6:164649	VO	M00001384A:C09
1627	801.B6.sp6:164661	VO	M00001387A:A04
1628	801.D6.sp6:164685	VO	M00001389B:B06
1629	801.E6.sp6:164697	VO	M00001390A:C06
1630	801.F6.sp6:164709	VO	M00001390A:H01
1631	801.D7.sp6:164686	VNO	
1632	801.E7.sp6:164698	VO	M00001399C:E10
1633	1033.A01.sp6:188313	VO	M00001399D:F09
1634	801.G7.sp6:164722	VNO	
1635	801.H7.sp6:164734	VO	M00001401D:D04
1636	801.A8.sp6:164651	VNO	
1637	801.B8.sp6:164663	VO	M00001402D:C07
1638	801.C8.sp6:164675	VO	M00001402D:H03
1639	801.D8.sp6:164687	VO	M00001403B:A01
1640	801.E8.sp6:164699	VO	M00001405D:F05
1641	801.G8.sp6:164723	VO	M00001406C:A11
1642	801.B9.sp6:164664	VO	M00001407B:A08
1643	801.C9.sp6:164676	VO	M00001407D:H11
1644	801.D9.sp6:164688	VNO	
1645	801.E9.sp6:164700	VNO	
1646	801.F9.sp6:164712	VO	M00001411A:D01
1647	801.G9.sp6:164724	VNO	
1648	801.H9.sp6:164736	VO	M00001411C:G02
1649	801.B10.sp6:164665	VO	M00001412A:A11
1650	801.C10.sp6:164677	VNO	

SEQ ID NO:	Sample Name	Overlap	Clone Name
1651	801.D10.sp6:164689	VNO	
1652	801.E10.sp6:164701	VO	M00001415D:E12
1653	801.F10.sp6:164713	VNO	
1654	801.G10.sp6:164725	VO	M00001417B:E01
1655	020.A6.sp6:128596	VO	M00001417B:E01
1656	801.H10.sp6:164737	VNO	
1657	801.A11.sp6:164654	VO	M00001417C:E02
1658	801.B11.sp6:164666	VNO	
1659	801.C11.sp6:164678	VO	M00001421A:H07
1660	801.F11.sp6:164714	VO	M00001423C:D06
1661	801.G11.sp6:164726	VO	M00001424A:H09
1662	801.H11.sp6:164738	VO	M00001425C:E10
1663	801.B12.sp6:164667	VO	M00001426A:F09
1664	801.C12.sp6:164679	VO	M00001426D:D09
1665	801.E12.sp6:164703	VO	M00001431A:C10
1666	801.F12.sp6:164715	VO	M00001431A:E05
1667	801.G12.sp6:164727	VO	M00001432A:F12
1668	801.H12.sp6:164739	VO	M00001432B:H08
1669	802.A1.sp6:164740	VO	M00001432C:G01
1670	802.B1.sp6:164752	VO	M00001433A:C07
1671	802.C1.sp6:164764	VNO	
1672	802.D1.sp6:164776	VO	M00001434A:A01
1673	802.E1.sp6:164788	VNO	
1674	802.F1.sp6:164800	VO	M00001435A:F03
1675	802.G1.sp6:164812	VO	M00001435A:G01
1676	802.H1.sp6:164824	VO	M00001435B:G10
1677	802.A2.sp6:164741	VO	M00001435C:G08
1678	802.B2.sp6:164753	VNO	
1679	802.C2.sp6:164765	VO	M00001435D:A06
1680	802.D2.sp6:164777	VO	M00001436D:C10
1681	802.E2.sp6:164789	VO	M00001437B:B05
1682	802.G2.sp6:164813	VNO	
1683	802.H2.sp6:164825	VO	M00001438C:H05
1684	802.A3.sp6:164742	VNO	
1685	802.B3.sp6:164754	VO	M00001439B:F10
1686	802.C3.sp6:164766	VO	M00001439C:A01
1687	802.D3.sp6:164778	VO	M00001439C:G06
1688	802.E3.sp6:164790	VO	M00001441D:H05
1689	802.F3.sp6:164802	VO	M00001442A:D08
1690	802.G3.sp6:164814	VNO	
1691	802.H3.sp6:164826	VO	M00001443D:A01
1692	802.A4.sp6:164743	VNO	
1693	802.B4.sp6:164755	VO	M00001444A:A09

SEQ ID NO:	Sample Name	Overlap	Clone Name
1694	802.C4.sp6:164767	VNO	
1695	802.D4.sp6:164779	VNO	
1696	802.E4.sp6:164791	VO	M00001446D:B10
1697	1033.B01.sp6:188325	VO	M00001448A:D05
1698	802.F4.sp6:164803	VO	M00001451B:H11
1699	802.G4.sp6:164815	VNO	
1700	802.H4.sp6:164827	VO	M00001452B:H06
1701	802.A5.sp6:164744	VO	M00001452D:E05
1702	802.C5.sp6:164768	VO	M00001453D:F09
1703	1033.C01.sp6:188337	VO	M00001455A:C03
1704	1033.E01.sp6:188361	VO	M00001456C:F02
1705	1033.F01.sp6:188373	VO	M00001458B:F06
1706	802.D5.sp6:164780	VO	M00001463C:A01
1707	802.E5.sp6:164792	VO	M00001466C:F02
1708	802.F5.sp6:164804	VNO	
1709	802.G5.sp6:164816	VO	M00001471C:G03
1710	1033.G01.sp6:188385	VO	M00001478A:B06
1711	1033.H01.sp6:188397	VO	M00001487D:G03
1712	802.H5.sp6:164828	VO	M00001488B:G12
1713	802.B6.sp6:164757	VO	M00001489B:F08
1714	802.C6.sp6:164769	VO	M00001489D:C08
1715	802.D6.sp6:164781	VO	M00001490B:G04
1716	802.E6.sp6:164793	VO	M00001491C:C01
1717	802.F6.sp6:164805	VNO	
1718	802.G6.sp6:164817	VO	M00001496A:B03
1719	802.H6.sp6:164829	VNO	
1720	802.A7.sp6:164746	VO	M00001496D:D02
1721	802.B7.sp6:164758	VNO	
1722	802.D7.sp6:164782	VNO	
1723	802.E7.sp6:164794	VO	M00001500A:D09
1724	802.F7.sp6:164806	VNO	
1725	802.G7.sp6:164818	VNO	
1726	802.H7.sp6:164830	VO	M00001504D:D09
1727	802.A8.sp6:164747	VO	M00001505A:E09
1728	802.B8.sp6:164759	VO	M00001506A:F01
1729	802.D8.sp6:164783	VO	M00001517D:C03
1730	802.E8.sp6:164795	VO	M00001518D:A10
1731	1033.A02.sp6:188314	VO	M00001530A:D11
1732	802.F8.sp6:164807	VO	M00001536B:B11
1733	802.G8.sp6:164819	VO	M00001537B:C12
1734	1033.B02.sp6:188326	VO	M00001539B:B01
1735	802.H8.sp6:164831	VO	M00001542C:D10
1736	802.A9.sp6:164748	VO	M00001542C:F06

SEQ ID NO:	Sample Name	Overlap	Clone Name
1737	802.B9.sp6:164760	VNO	
1738	802.C9.sp6:164772	VO	M00001543A:E04
1739	802.E9.sp6:164796	VO	M00001546B:H01
1740	802.G9.sp6:164820	VO	M00001551D:C12
1741	802.H9.sp6:164832	VO	M00001552B:D01
1742	802.A10.sp6:164749	VO	M00001553D:B06
1743	802.B10.sp6:164761	VNO	
1744	802.C10.sp6:164773	VO	M00001556D:A11
1745	802.D10.sp6:164785	VNO	
1746	802.E10.sp6:164797	VO	M00001557C:B08
1747	802.F10.sp6:164809	VO	M00001558B:A12
1748	802.G10.sp6:164821	VO	M00001560C:C01
1749	802.H10.sp6:164833	VO	M00001561B:C10
1750	1033.C02.sp6:188338	VO	M00001563C:D06
1751	1033.D02.sp6:188350	VO	M00001564C:D04
1752	1033.E02.sp6:188362	VO	M00001565A:A02
1753	1033.F02.sp6:188374	VO	M00001569B:F04
1754	1033.G02.sp6:188386	VO	M00001572C:E07
1755	1033.H02.sp6:188398	VO	M00001575A:H02
1756	1033.A03.sp6:188315	VO	M00001582D:B10
1757	1033.B03.sp6:188327	VO	M00001584C:A03
1758	1033.E04.sp6:188364	VO	M00001618B:F02
1759	1033.B08.sp6:188332	VO	M00001687C:A06
1760	1033.H12.sp6:188408	VNO	
1761	1034.C05.sp6:188533	VO	M00003830A:A10
1762	1034.F05.sp6:188569	VO	M00003833D:D06
1763	1034.D06.sp6:188546	VO	M00003839D:G06
1764	1034.G06.sp6:188582	VO	M00003843A:B01
1765	1034.H07.sp6:188595	VO	M00003858A:D01
1766	1034.A08.sp6:188512	VO	M00003859C:B09
1767	1034.E08.sp6:188560	VO	M00003868D:F07
1768	1034.C10.sp6:188538	VO	M00003895D:A03
1769	1034.B11.sp6:188527	VO	M00003906C:H12
1770	1034.G11.sp6:188587	VNO	
1771	1034.D12.sp6:188552	VO	M00003918C:E07
1772	1035.H01.sp6:188781	VNO	
1773	1035.G02.sp6:188770	VNO	
1774	325.D3.sp6:145862	VNO	
1775	1035.A05.sp6:188701	VNO	
1776	1035.F05.sp6:188761	VNO	
1777	803.H1.sp6:165016	VNO	
1778	803.F2.sp6:164993	VNO	
1779	1035.G06.sp6:188774	VO	M00004030A:G12

SEQ ID NO:	Sample Name	Overlap	Clone Name
1780	1035.A07.sp6:188703	VO	M00004030B:C05
1781	1035.B07.sp6:188715	VNO	
1782	1035.D08.sp6:188740	VO	M00004035D:C05
1783	1035.G08.sp6:188776	VO	M00004036C:D01
1784	1035.A09.sp6:188705	VNO	
1785	1035.B09.sp6:188717	VO	M00004037B:B05
1786	1035.G09.sp6:188777	VO	M00004038C:D12
1787	803.C4.sp6:164959	VO	M00004051C:D02
1788	803.A5.sp6:164936	VNO	
1789	774.E2.sp6:162484	VO	M00004054D:D02
1790	803.D5.sp6:164972	VNO	
1791	803.C6.sp6:164961	VNO	
1792	803.D6.sp6:164973	VNO	
1793	1035.A12.sp6:188708	VNO	
1794	1035.C12.sp6:188732	VO	M00004076D:B03
1795	774.E4.sp6:162500	VO	M00004081B:C11
1796	1035.G12.sp6:188780	VO	M00004081B:C11
1797	1036.H01.sp6:188973	VO	M00004089A:F02
1798	1036.D02.sp6:188926	VO	M00004091B:G04
1799	1036.G03.sp6:188963	VO	M00004103B:C07
1800	1036.F04.sp6:188952	VNO	
1801	1036.H04.sp6:188976	VO	M00004115A:F01
1802	1036.A05.sp6:188893	VO	M00004115A:G09
1803	1036.B06.sp6:188906	VNO	
1804	803.A7.sp6:164938	VNO	
1805	803.E8.sp6:164987	VNO	
1806	803.F8.sp6:164999	VO	M00004159D:C04
1807	803.A9.sp6:164940	VO	M00004160A:D07
1808	1036.D06.sp6:188930	VO	M00004178B:F06
1809	1036.F06.sp6:188954	VNO	
1810	1036.H06.sp6:188978	VO	M00004184B:F11
1811	1036.D09.sp6:188933	VO	M00004202B:A02
1812	1036.F09.sp6:188957	VO	M00004202B:G09
1813	803.H10.sp6:165025	VNO	
1814	803.H11.sp6:165026	VNO	
1815	803.C12.sp6:164967	VNO	
1816	804.D1.sp6:165160	VNO	
1817	983.D01.sp6:186199	VO	M00004247B:C11
1818	1036.D11.sp6:188935	VO	M00004249C:E12
1819	804.B3.sp6:165138	VNO	
1820	983.B03.sp6:186181	VO	M00004277D:C08
1821	804.F5.sp6:165188	VNO	
1822	983.F05.sp6:186221	VO	M00004337D:G08

SEQ ID NO:	Sample Name	Overlap	Clone Name
1823	983.G05.sp6:186230	VO	M00004345A:H06
1824	804.G5.sp6:165200	VNO	
1825	983.A06.sp6:186174	VO	M00004350B:F06
1826	804.A6.sp6:165129	VNO	
1827	774.D12.sp6:162563	VO	M00004350B:F06
1828	804.F7.sp6:165190	VNO	
1829	983.F07.sp6:186223	VO	M00004446A:G01
1830	992.E01.sp6:186367	VO	M00005332A:H10
1831	992.G02.sp6:186392	VNO	
1832	992.A04.sp6:186322	VO	M00005378C:A10
1833	992.D04.sp6:186358	VO	M00005384A:A01
1834	992.B05.sp6:186335	VO	M00005390B:G10
1835	992.H05.sp6:186407	VO	M00005399A:D01
1836	992.A06.sp6:186324	VNO	
1837	992.B06.sp6:186336	VO	M00005399D:B02
1838	020.G4.sp6:128666	VO	M00005404C:F02
1839	020.G8.sp6:128670	VO	M00005411A:C07
1840	992.H06.sp6:186408	VNO	
1841	953.F01.sp6:185185	VO	M00005411D:A03
1842	992.A07.sp6:186325	VO	M00005411D:A03
1843	992.D08.sp6:186362	VO	M00005446A:G01
1844	992.B09.sp6:186339	VO	M00005450B:B01
1845	953.A07.sp6:185131	VO	M00005450B:B01
1846	953.E07.sp6:185179	VO	M00005452C:A02
1847	992.E09.sp6:186375	VO	M00005452C:A02
1848	992.G09.sp6:186399	VO	M00005455A:D01
1849	992.H09.sp6:186411	VO	M00005455A:G03
1850	992.D11.sp6:186365	VNO	
1851	953.H10.sp6:185218	VO	M00005477C:D08
1852	992.F11.sp6:186389	VO	M00005477C:D08
1853	953.D11.sp6:185171	VO	M00005480A:H12
1854	992.H11.sp6:186413	VO	M00005480C:B12
1855	992.A12.sp6:186330	VO	M00005481C:A05
1856	953.E11.sp6:185183	VO	M00005481C:A05
1857	953.C12.sp6:185160	VO	M00005485C:A03
1858	992.F12.sp6:186390	VO	M00005485C:A03
1859	953.E12.sp6:185184	VO	M00005486C:B03
1860	993.C03.sp6:186537	VO	M00005510B:D06
1861	993.D03.sp6:186549	VO	M00005513A:D08
1862	993.E03.sp6:186561	VO	M00005524C:B01
1863	993.G03.sp6:186585	VO	M00005528D:H06
1864	993.A04.sp6:186514	VO	M00005530B:E04
1865	993.B05.sp6:186527	VO	M00005616B:D05

SEQ ID NO:	Sample Name	Overlap	Clone Name
1866	993.C06.sp6:186540	VNO	
1867	993.B08.sp6:186530	VO	M00005704A:B11
1868	993.C08.sp6:186542	VO	M00005708D:B03
1869	993.D09.sp6:186555	VO	M00005765C:C04
1870	993.E09.sp6:186567	VO	M00005772A:F03
1871	993.F10.sp6:186580	VO	M00006577B:H12
1872	993.C11.sp6:186545	VO	M00006587A:H08
1873	993.D11.sp6:186557	VNO	
1874	993.G11.sp6:186593	VNO	
1875	993.H12.sp6:186606	VO	M00006615B:F05
1876	626.B2.sp6:157417	VO	M00007953B:B03
1877	627.E6.sp6:157649	VO	M00007985A:B09
1878	633.C4.sp6:156098	VO	M00008061A:F02
1879	636.F10.sp6:158241	VO	M00022070B:C10
1880	641.G8.GZ42:158428	VO	M00022109B:A11
1881	642.B7.sp6:156281	VO	M00022176C:A08
1882	1010.F02.sp6:189986	VNO	
1883	1010.A09.sp6:189945	VO	M00022828C:E04
1884	1033.C03.sp6:188339	VO	M00001586A:F09
1885	1033.D03.sp6:188351	VO	M00001588D:H08
1886	1033.E03.sp6:188363	VO	M00001589C:D12
1887	1033.F03.sp6:188375	VO	M00001589D:G10
1888	1033.G03.sp6:188387	VO	M00001590D:A07
1889	802.A11.sp6:164750	VNO	
1890	802.B11.sp6:164762	VO	M00001597C:B03
1891	1033.H03.sp6:188399	VO	M00001598C:D10
1892	1033.A04.sp6:188316	VO	M00001599A:H09
1893	1033.B04.sp6:188328	VNO	
1894	1033.C04.sp6:188340	VO	M00001610B:A01
1895	1033.D04.sp6:188352	VO	M00001614C:G04
1896	1033.F04.sp6:188376	VO	M00001618C:E06
1897	1033.G04.sp6:188388	VO	M00001621C:A04
1898	802.E11.sp6:164798	VNO	
1899	802.G11.sp6:164822	VO	M00001623B:B01
1900	802.H11.sp6:164834	VO	M00001623D:A09
1901	1033.H04.sp6:188400	VO	M00001626B:H05
1902	1033.A05.sp6:188317	VNO	
1903	1033.B05.sp6:188329	VO	M00001634C:E12
1904	1033.C05.sp6:188341	VO	M00001639A:A04
1905	1033.D05.sp6:188353	VNO	
1906	1033.E05.sp6:188365	VO	M00001640A:F04
1907	1033.F05.sp6:188377	VO	M00001641B:G05
1908	802.C12.sp6:164775	VO	M00001644D:F09

SEQ ID NO:	Sample Name	Overlap	Clone Name
1909	1033.G05.sp6:188389	VO	M00001647C:C07
1910	1033.H05.sp6:188401	VO	M00001648C:F06
1911	1033.A06.sp6:188318	VNO	
1912	1033.B06.sp6:188330	VO	M00001649D:H05
1913	1033.D06.sp6:188354	VO	M00001655A:F07
1914	1033.E06.sp6:188366	VO	M00001656D:F11
1915	1033.F06.sp6:188378	VNO	
1916	1033.G06.sp6:188390	VNO	
1917	1033.H06.sp6:188402	VO	M00001660A:F10
1918	1033.A07.sp6:188319	VO	M00001663C:C03
1919	1033.B07.sp6:188331	VO	M00001669A:H11
1920	1033.C07.sp6:188343	VO	M00001669B:A03
1921	1033.D07.sp6:188355	VO	M00001675C:B03
1922	1033.E07.sp6:188367	VO	M00001677A:A06
1923	1033.F07.sp6:188379	VO	M00001677A:A12
1924	1033.G07.sp6:188391	VO	M00001678D:A12
1925	1033.H07.sp6:188403	VNO	
1926	1033.A08.sp6:188320	VNO	
1927	1033.C08.sp6:188344	VO	M00001693D:F07
1928	1033.D08.sp6:188356	VO	M00003741A:E01
1929	1033.E08.sp6:188368	VO	M00003745C:E03
1930	1033.F08.sp6:188380	VO	M00003746A:E01
1931	1033.G08.sp6:188392	VNO	
1932	1033.H08.sp6:188404	VO	M00003748B:B06
1933	1033.A09.sp6:188321	VO	M00003749B:C08
1934	1033.B09.sp6:188333	VO	M00003749D:G07
1935	1033.C09.sp6:188345	VO	M00003752A:B06
1936	1033.D09.sp6:188357	VO	M00003752D:D09
1937	1033.E09.sp6:188369	VO	M00003753C:B01
1938	1033.F09.sp6:188381	VO	M00003754C:F01
1939	1033.G09.sp6:188393	VO	M00003756C:C08
1940	1033.H09.sp6:188405	VO	M00003759A:E10
1941	1033.A10.sp6:188322	VO	M00003762A:D11
1942	1033.B10.sp6:188334	VO	M00003763B:D03
1943	1033.C10.sp6:188346	VO	M00003763D:F06
1944	1033.D10.sp6:188358	VO	M00003765D:E02
1945	1033.E10.sp6:188370	VO	M00003766A:G09
1946	1033.F10.sp6:188382	VO	M00003766B:G04
1947	1033.G10.sp6:188394	VO	M00003767C:F04
1948	1033.H10.sp6:188406	VO	M00003769B:A04
1949	1033.A11.sp6:188323	VO	M00003769D:G12
1950	1033.B11.sp6:188335	VO	M00003770D:C07
1951	1033.C11.sp6:188347	VO	M00003771A:G09

SEQ ID NO:	Sample Name	Overlap	Clone Name
1952	1033.D11.sp6:188359	VO	M00003771D:A10
1953	1033.E11.sp6:188371	VO	M00003773A:C09
1954	1033.F11.sp6:188383	VO	M00003773B:E09
1955	1033.G11.sp6:188395	VO	M00003773B:G08
1956	1033.H11.sp6:188407	VO	M00003773C:G06
1957	1033.A12.sp6:188324	VO	M00003773D:C02
1958	802.E12.sp6:164799	VNO	
1959	802.F12.sp6:164811	VNO	
1960	802.G12.sp6:164823	VO	M00003784C:B09
1961	802.H12.sp6:164835	VO	M00003785D:E01
1962	803.A1.sp6:164932	VNO	
1963	803.B1.sp6:164944	VNO	
1964	803.C1.sp6:164956	VNO	
1965	1033.B12.sp6:188336	VO	M00003789C:E03
1966	1033.C12.sp6:188348	VO	M00003790B:F12
1967	1033.D12.sp6:188360	VO	M00003793C:D11
1968	1033.F12.sp6:188384	VO	M00003796B:C07
1969	1033.G12.sp6:188396	VO	M00003796C:H03
1970	1034.A01.sp6:188505	VO	M00003797D:H06
1971	1034.B01.sp6:188517	VNO	
1972	1034.C01.sp6:188529	VO	M00003801D:F05
1973	1034.D01.sp6:188541	VO	M00003805A:G05
1974	1034.E01.sp6:188553	VO	M00003808C:D09
1975	1034.F01.sp6:188565	VO	M00003809A:A12
1976	1034.G01.sp6:188577	VO	M00003809A:H12
1977	1034.H01.sp6:188589	VO	M00003809B:D08
1978	1034.A02.sp6:188506	VO	M00003811B:E07
1979	1034.B02.sp6:188518	VO	M00003812B:F08
1980	1034.C02.sp6:188530	VO	M00003812D:E08
1981	1034.D02.sp6:188542	VO	M00003813D:A06
1982	1034.E02.sp6:188554	VO	M00003815C:A06
1983	1034.F02.sp6:188566	VNO	
1984	1034.G02.sp6:188578	VNO	
1985	1034.H02.sp6:188590	VO	M00003818A:F09
1986	1034.A03.sp6:188507	VO	M00003818B:A01
1987	1034.B03.sp6:188519	VO	M00003818C:E09
1988	1034.C03.sp6:188531	VNO	
1989	1034.D03.sp6:188543	VO	M00003819C:E04
1990	1034.E03.sp6:188555	VO	M00003819D:G09
1991	1034.F03.sp6:188567	VO	M00003820A:H04
1992	1034.H03.sp6:188591	VO	M00003820D:E02
1993	1034.A04.sp6:188508	VO	M00003821C:E04
1994	1034.B04.sp6:188520	VO	M00003822A:G05

SEQ ID NO:	Sample Name	Overlap	Clone Name
1995	803.E12.sp6:164991	VNO	
1996	020.E2.sp6:128640	VO	M00004242C:C01
1997	019.F9.sp6:128467	VO	M00006720C:C11
1998	019.G10.sp6:128480	VO	M00007019A:B01
1999	1034.C04.sp6:188532	VNO	
2000	1034.D04.sp6:188544	VO	M00003825B:A05
2001	1034.E04.sp6:188556	VNO	
2002	1034.F04.sp6:188568	VO	M00003825C:B02
2003	1034.G04.sp6:188580	VO	M00003825C:B12
2004	1034.B05.sp6:188521	VO	M00003829A:E02
2005	1034.D05.sp6:188545	VO	M00003832B:G03
2006	1034.E05.sp6:188557	VO	M00003833B:A11
2007	1034.G05.sp6:188581	VO	M00003834A:A03
2008	1034.A06.sp6:188510	VO	M00003835D:H05
2009	1034.B06.sp6:188522	VO	M00003837C:F05
2010	1034.C06.sp6:188534	VNO	
2011	1034.E06.sp6:188558	VO	M00003841A:E09
2012	1034.F06.sp6:188570	VO	M00003841B:D05
2013	1034.H06.sp6:188594	VO	M00003844C:D04
2014	1034.A07.sp6:188511	VO	M00003844C:H05
2015	1034.B07.sp6:188523	VO	M00003845A:A05
2016	1034.C07.sp6:188535	VO	M00003846B:H02
2017	1034.D07.sp6:188547	VO	M00003846D:C12
2018	1034.E07.sp6:188559	VO	M00003850B:D11
2019	1034.G07.sp6:188583	VNO	
2020	1034.B08.sp6:188524	VO	M00003860B:A07
2021	803.D1.sp6:164968	VO	M00003862C:H10
2022	803.E1.sp6:164980	VO	M00003864B:A04
2023	803.F1.sp6:164992	VNO	
2024	803.G1.sp6:165004	VO	M00003864D:G05
2025	1034.C08.sp6:188536	VNO	
2026	1034.D08.sp6:188548	VO	M00003868D:F02
2027	1034.F08.sp6:188572	VO	M00003871A:E09
2028	1034.G08.sp6:188584	VNO	
2029	1034.H08.sp6:188596	VNO	
2030	1034.A09.sp6:188513	VNO	
2031	1034.B09.sp6:188525	VO	M00003884D:A12
2032	1034.C09.sp6:188537	VNO	
2033	1034.D09.sp6:188549	VO	M00003887B:C03
2034	1034.E09.sp6:188561	VO	M00003888B:A10
2035	1034.F09.sp6:188573	VO	M00003888C:E01
2036	1034.G09.sp6:188585	VO	M00003890B:H07
2037	1034.H09.sp6:188597	VO	M00003890D:C03

SEQ ID NO:	Sample Name	Overlap	Clone Name
2038	1034.A10.sp6:188514	VO	M00003892D:D04
2039	1034.B10.sp6:188526	VO	M00003893C:D12
2040	1034.D10.sp6:188550	VO	M00003896B:F08
2041	1034.E10.sp6:188562	VO	M00003896D:B01
2042	1034.F10.sp6:188574	VNO	
2043	1034.G10.sp6:188586	VO	M00003903C:H03
2044	1034.H10.sp6:188598	VO	M00003905C:B01
2045	1034.A11.sp6:188515	VO	M00003905C:E10
2046	1034.C11.sp6:188539	VO	M00003909D:G01
2047	1034.D11.sp6:188551	VO	M00003911C:G05
2048	1034.E11.sp6:188563	VO	M00003912B:G11
2049	1034.F11.sp6:188575	VO	M00003912C:C11
2050	1034.H11.sp6:188599	VO	M00003914C:E03
2051	1034.A12.sp6:188516	VO	M00003915A:D09
2052	1034.B12.sp6:188528	VNO	
2053	1034.C12.sp6:188540	VO	M00003915C:G01
2054	1034.E12.sp6:188564	VO	M00003920B:A10
2055	1034.F12.sp6:188576	VNO	
2056	1034.G12.sp6:188588	VO	M00003921D:C06
2057	1034.H12.sp6:188600	VO	M00003923A:H07
2058	1035.A01.sp6:188697	VNO	
2059	1035.B01.sp6:188709	VNO	
2060	1035.C01.sp6:188721	VO	M00003936C:F10
2061	1035.E01.sp6:188745	VO	M00003948B:B03
2062	1035.F01.sp6:188757	VO	M00003949B:A08
2063	1035.G01.sp6:188769	VO	M00003949B:D05
2064	1035.A02.sp6:188698	VO	M00003961B:A12
2065	1035.B02.sp6:188710	VO	M00003961C:G02
2066	1035.C02.sp6:188722	VO	M00003962B:B09
2067	1035.D02.sp6:188734	VO	M00003963B:D12
2068	1035.E02.sp6:188746	VO	M00003965A:F07
2069	1035.F02.sp6:188758	VNO	
2070	1035.H02.sp6:188782	VNO	
2071	1035.A03.sp6:188699	VO	M00003973A:C05
2072	1035.B03.sp6:188711	VO	M00003973B:H06
2073	1035.C03.sp6:188723	VO	M00003974B:A04
2074	1035.D03.sp6:188735	VNO	
2075	1035.E03.sp6:188747	VNO	
2076	1035.F03.sp6:188759	VNO	
2077	1035.G03.sp6:188771	VO	M00003976D:D12
2078	1035.H03.sp6:188783	VO	M00003977C:A08
2079	1035.A04.sp6:188700	VO	M00003980B:F12
2080	1035.B04.sp6:188712	VO	M00003980C:A11

SEQ ID NO:	Sample Name	Overlap	Clone Name
2081	1035.C04.sp6:188724	VO	M00003980C:G10
2082	1035.D04.sp6:188736	VO	M00003981C:E04
2083	1035.H04.sp6:188784	VO	M00003983C:E07
2084	1035.C05.sp6:188725	VNO	
2085	1035.D05.sp6:188737	VO	M00003987D:F06
2086	1035.E05.sp6:188749	VO	M00003988B:C10
2087	1035.G05.sp6:188773	VNO	
2088	803.A2.sp6:164933	VO	M00003992C:G01
2089	803.B2.sp6:164945	VO	M00003992D:G01
2090	803.C2.sp6:164957	VNO	
2091	803.D2.sp6:164969	VO	M00003994C:C11
2092	803.E2.sp6:164981	VO	M00003996D:C04
2093	803.G2.sp6:165005	VO	M00003997D:D07
2094	803.H2.sp6:165017	VNO	
2095	803.A3.sp6:164934	VO	M00003998A:D03
2096	803.B3.sp6:164946	VO	M00003998A:G12
2097	803.C3.sp6:164958	VO	M00003998C:H10
2098	803.D3.sp6:164970	VO	M00003999C:C12
2099	1035.H05.sp6:188785	VO	M00004027A:B10
2100	1035.A06.sp6:188702	VO	M00004027C:H01
2101	1035.B06.sp6:188714	VO	M00004028C:B04
2102	1035.D06.sp6:188738	VO	M00004029A:E01
2103	1035.F06.sp6:188762	VNO	
2104	1035.H06.sp6:188786	VO	M00004030B:B02
2105	1035.C07.sp6:188727	VO	M00004031A:G05
2106	1035.E07.sp6:188751	VO	M00004032D:D03
2107	1035.F07.sp6:188763	VNO	
2108	1035.G07.sp6:188775	VNO	
2109	1035.A08.sp6:188704	VNO	
2110	1035.C08.sp6:188728	VO	M00004035B:H11
2111	1035.E08.sp6:188752	VO	M00004035D:E04
2112	1035.F08.sp6:188764	VO	M00004036B:F09
2113	1035.H08.sp6:188788	VO	M00004037A:A07
2114	1035.C09.sp6:188729	VO	M00004037C:C05
2115	1035.E09.sp6:188753	VO	M00004037D:B05
2116	1035.F09.sp6:188765	VO	M00004038C:C05
2117	1035.H09.sp6:188789	VO	M00004039D:D03
2118	1035.A10.sp6:188706	VO	M00004040B:B09
2119	1035.B10.sp6:188718	VO	M00004040C:G12
2120	1035.C10.sp6:188730	VO	M00004040D:B05
2121	1035.D10.sp6:188742	VO	M00004041B:F01
2122	1035.E10.sp6:188754	VO	M00004041D:E06
2123	1035.F10.sp6:188766	VO	M00004043D:C10

SEQ ID NO:	Sample Name	Overlap	Clone Name
2124	1035.G10.sp6:188778	VNO	
2125	803.E3.sp6:164982	VO	M00004045A:B12
2126	803.F3.sp6:164994	VO	M00004046A:F04
2127	803.G3.sp6:165006	VNO	
2128	803.H3.sp6:165018	VNO	
2129	803.A4.sp6:164935	VNO	
2130	803.B4.sp6:164947	VNO	
2131	803.D4.sp6:164971	VNO	
2132	803.E4.sp6:164983	VO	M00004052C:A08
2133	803.G4.sp6:165007	VO	M00004054B:G02
2134	803.H4.sp6:165019	VO	M00004054D:A03
2135	803.B5.sp6:164948	VO	M00004055B:F06
2136	803.C5.sp6:164960	VO	M00004058B:C11
2137	803.E5.sp6:164984	VO	M00004058C:E08
2138	803.F5.sp6:164996	VO	M00004059A:G09
2139	803.G5.sp6:165008	VO	M00004060C:A02
2140	803.H5.sp6:165020	VNO	
2141	803.A6.sp6:164937	VO	M00004060D:A07
2142	803.B6.sp6:164949	VO	M00004063C:B11
2143	803.E6.sp6:164985	VNO	
2144	1035.H10.sp6:188790	VO	M00004068A:F02
2145	1035.A11.sp6:188707	VO	M00004068B:D04
2146	1035.B11.sp6:188719	VNO	
2147	1035.C11.sp6:188731	VO	M00004069B:B01
2148	1035.D11.sp6:188743	VO	M00004069D:G02
2149	1035.E11.sp6:188755	VO	M00004071A:H03
2150	1035.F11.sp6:188767	VO	M00004073D:B11
2151	1035.G11.sp6:188779	VNO	
2152	1035.H11.sp6:188791	VNO	
2153	1035.B12.sp6:188720	VNO	
2154	1035.D12.sp6:188744	VNO	
2155	1035.E12.sp6:188756	VNO	
2156	1035.F12.sp6:188768	VO	M00004078C:A08
2157	1035.H12.sp6:188792	VO	M00004081C:A01
2158	1036.A01.sp6:188889	VO	M00004084A:D11
2159	1036.B01.sp6:188901	VO	M00004084C:G04
2160	1036.C01.sp6:188913	VO	M00004085B:G06
2161	1036.D01.sp6:188925	VO	M00004086A:A03
2162	1036.E01.sp6:188937	VO	M00004086D:A07
2163	1036.F01.sp6:188949	VO	M00004087C:F05
2164	1036.G01.sp6:188961	VO	M00004088A:F12
2165	1036.A02.sp6:188890	VO	M00004089A:G03
2166	1036.B02.sp6:188902	VO	M00004091A:E01

SEQ ID NO:	Sample Name	Overlap	Clone Name
2167	1036.C02.sp6:188914	VO	M00004091B:C12
2168	1036.E02.sp6:188938	VO	M00004091C:F04
2169	1036.F02.sp6:188950	VO	M00004091D:D09
2170	1036.G02.sp6:188962	VO	M00004092A:C03
2171	1036.H02.sp6:188974	VO	M00004092A:D04
2172	1036.A03.sp6:188891	VO	M00004093A:F03
2173	1036.B03.sp6:188903	VO	M00004093D:D09
2174	1036.C03.sp6:188915	VNO	
2175	1036.D03.sp6:188927	VO	M00004101D:A03
2176	1036.E03.sp6:188939	VO	M00004102B:B04
2177	1036.F03.sp6:188951	VO	M00004102C:F07
2178	1036.H03.sp6:188975	VNO	
2179	1036.A04.sp6:188892	VNO	
2180	1036.B04.sp6:188904	VNO	
2181	1036.C04.sp6:188916	VNO	
2182	1036.D04.sp6:188928	VO	M00004107C:A01
2183	1036.E04.sp6:188940	VNO	
2184	1036.G04.sp6:188964	VO	M00004114C:F02
2185	1036.C05.sp6:188917	VO	M00004117B:F01
2186	1036.D05.sp6:188929	VO	M00004120A:C02
2187	1036.E05.sp6:188941	VO	M00004126B:G02
2188	1036.F05.sp6:188953	VNO	
2189	1036.G05.sp6:188965	VO	M00004129A:H08
2190	1036.H05.sp6:188977	VO	M00004130C:A09
2191	1036.A06.sp6:188894	VO	M00004130D:E04
2192	1036.C06.sp6:188918	VO	M00004133D:A01
2193	803.F6.sp6:164997	VNO	
2194	803.G6.sp6:165009	VNO	
2195	803.H6.sp6:165021	VNO	
2196	803.B7.sp6:164950	VO	M00004143A:G12
2197	803.C7.sp6:164962	VO	M00004143A:H07
2198	803.D7.sp6:164974	VNO	
2199	803.E7.sp6:164986	VNO	
2200	803.F7.sp6:164998	VO	M00004145C:A03
2201	803.G7.sp6:165010	VO	M00004146D:A07
2202	803.H7.sp6:165022	VO	M00004147A:G03
2203	803.A8.sp6:164939	VO	M00004149B:H12
2204	803.B8.sp6:164951	VNO	
2205	803.C8.sp6:164963	VO	M00004153D:E06
2206	803.D8.sp6:164975	VO	M00004154D:F11
2207	803.G8.sp6:165011	VNO	
2208	803.H8.sp6:165023	VNO	
2209	803.B9.sp6:164952	VNO	

SEQ ID NO:	Sample Name	Overlap	Clone Name
2210	803.C9.sp6:164964	VNO	
2211	803.D9.sp6:164976	VNO	
2212	803.E9.sp6:164988	VNO	
2213	803.F9.sp6:165000	VNO	
2214	803.G9.sp6:165012	VO	M00004166B:E10
2215	803.H9.sp6:165024	VO	M00004166C:A03
2216	803.A10.sp6:164941	VO	M00004166D:G07
2217	803.B10.sp6:164953	VNO	
2218	803.C10.sp6:164965	VNO	
2219	1036.E06.sp6:188942	VO	M00004180B:F04
2220	1036.G06.sp6:188966	VNO	
2221	803.D10.sp6:164977	VNO	
2222	1036.A07.sp6:188895	VNO	
2223	1036.B07.sp6:188907	VNO	
2224	1036.C07.sp6:188919	VNO	
2225	1036.D07.sp6:188931	VO	M00004188A:E10
2226	1036.F07.sp6:188955	VNO	
2227	1036.G07.sp6:188967	VO	M00004190C:G07
2228	1036.H07.sp6:188979	VO	M00004190D:A10
2229	1036.A08.sp6:188896	VNO	
2230	1036.B08.sp6:188908	VO	M00004191B:G01
2231	1036.C08.sp6:188920	VO	M00004193A:C07
2232	1036.D08.sp6:188932	VO	M00004193C:H01
2233	803.E10.sp6:164989	VO	M00004196C:G05
2234	1036.E08.sp6:188944	VO	M00004198D:H04
2235	1036.F08.sp6:188956	VO	M00004199D:C02
2236	1036.G08.sp6:188968	VO	M00004200A:A09
2237	1036.H08.sp6:188980	VO	M00004200A:G06
2238	803.F10.sp6:165001	VNO	
2239	1036.A09.sp6:188897	VO	M00004200D:A07
2240	1036.B09.sp6:188909	VO	M00004201D:C11
2241	1036.C09.sp6:188921	VO	M00004201D:E12
2242	1036.E09.sp6:188945	VNO	
2243	1036.G09.sp6:188969	VO	M00004204A:D04
2244	1036.H09.sp6:188981	VO	M00004204A:D10
2245	1036.A10.sp6:188898	VO	M00004204B:A04
2246	1036.B10.sp6:188910	VNO	
2247	1036.C10.sp6:188922	VO	M00004210A:B09
2248	1036.D10.sp6:188934	VO	M00004213A:H12
2249	1036.E10.sp6:188946	VO	M00004214A:D03
2250	1036.F10.sp6:188958	VO	M00004216D:E10
2251	1036.G10.sp6:188970	VO	M00004217A:A05
2252	1036.H10.sp6:188982	VO	M00004217A:A11

SEQ ID NO:	Sample Name	Overlap	Clone Name
2253	1036.A11.sp6:188899	VO	M00004217D:G10
2254	1036.B11.sp6:188911	VO	M00004218C:G10
2255	1036.C11.sp6:188923	VNO	
2256	803.G10.sp6:165013	VNO	
2257	803.A11.sp6:164942	VNO	
2258	803.B11.sp6:164954	VNO	
2259	803.C11.sp6:164966	VNO	
2260	803.D11.sp6:164978	VO	M00004234B:E03
2261	803.E11.sp6:164990	VO	M00004234B:G06
2262	803.G11.sp6:165014	VO	M00004236D:F04
2263	803.A12.sp6:164943	VNO	
2264	803.B12.sp6:164955	VO	M00004240D:A07
2265	803.D12.sp6:164979	VNO	
2266	803.F12.sp6:165003	VO	M00004242C:C02
2267	803.G12.sp6:165015	VNO	
2268	803.H12.sp6:165027	VO	M00004244B:A02
2269	804.A1.sp6:165124	VNO	
2270	983.A01.sp6:186169	VO	M00004245A:G09
2271	983.B01.sp6:186179	VO	M00004245C:A03
2272	804.C1.sp6:165148	VNO	
2273	983.C01.sp6:186189	VO	M00004247A:E01
2274	983.E01.sp6:186208	VO	M00004248A:G08
2275	804.E1.sp6:165172	VNO	
2276	1036.E11.sp6:188947	VNO	
2277	1036.F11.sp6:188959	VO	M00004252D:A07
2278	1036.G11.sp6:188971	VO	M00004252D:H08
2279	1036.H11.sp6:188983	VO	M00004253B:A10
2280	1036.A12.sp6:188900	VO	M00004253B:F06
2281	1036.B12.sp6:188912	VO	M00004253C:E10
2282	1036.C12.sp6:188924	VO	M00004253D:F09
2283	1036.D12.sp6:188936	VO	M00004257C:A08
2284	1036.E12.sp6:188948	VO	M00004260A:B07
2285	1036.F12.sp6:188960	VO	M00004260C:A12
2286	1036.G12.sp6:188972	VO	M00004260C:E10
2287	1036.H12.sp6:188984	VO	M00004262C:C01
2288	804.F1.sp6:165184	VNO	
2289	983.F01.sp6:186217	VO	M00004263D:F06
2290	983.G01.sp6:186226	VNO	
2291	983.H01.sp6:186235	VO	M00004266B:H06
2292	804.H1.sp6:165208	VNO	
2293	983.A02.sp6:186170	VO	M00004268C:F08
2294	983.B02.sp6:186180	VO	M00004268D:G07
2295	804.B2.sp6:165137	VNO	

SEQ ID NO:	Sample Name	Overlap	Clone Name
2296	983.C02.sp6:186190	VO	M00004269A:B11
2297	804.D2.sp6:165161	VNO	
2298	983.D02.sp6:186200	VO	M00004269D:E08
2299	983.E02.sp6:186209	VO	M00004272D:D02
2300	804.E2.sp6:165173	VNO	
2301	804.F2.sp6:165185	VNO	
2302	983.F02.sp6:186218	VO	M00004273D:E11
2303	804.G2.sp6:165197	VNO	
2304	983.G02.sp6:186227	VO	M00004276C:E12
2305	804.H2.sp6:165209	VNO	
2306	983.H02.sp6:186236	VNO	
2307	983.A03.sp6:186171	VO	M00004277C:H11
2308	804.A3.sp6:165126	VNO	
2309	804.C3.sp6:165150	VNO	
2310	983.C03.sp6:186191	VO	M00004279D:E02
2311	983.D03.sp6:186201	VNO	
2312	804.D3.sp6:165162	VNO	
2313	983.E03.sp6:186210	VO	M00004281B:B05
2314	804.E3.sp6:165174	VNO	
2315	804.F3.sp6:165186	VNO	
2316	983.F03.sp6:186219	VO	M00004283C:D03
2317	983.G03.sp6:186228	VNO	
2318	804.G3.sp6:165198	VNO	
2319	804.H3.sp6:165210	VNO	
2320	983.H03.sp6:186237	VO	M00004285B:E01
2321	804.A4.sp6:165127	VNO	
2322	983.A04.sp6:186172	VNO	
2323	804.B4.sp6:165139	VNO	
2324	983.B04.sp6:186182	VNO	
2325	804.C4.sp6:165151	VNO	
2326	983.C04.sp6:186192	VNO	
2327	983.D04.sp6:186202	VO	M00004297D:E08
2328	804.D4.sp6:165163	VNO	
2329	804.E4.sp6:165175	VNO	
2330	983.E04.sp6:186211	VO	M00004298B:D04
2331	804.F4.sp6:165187	VNO	
2332	983.F04.sp6:186220	VO	M00004308A:E06
2333	804.G4.sp6:165199	VNO	
2334	983.G04.sp6:186229	VO	M00004324B:D09
2335	983.H04.sp6:186238	VO	M00004328A:H06
2336	804.H4.sp6:165211	VNO	
2337	804.A5.sp6:165128	VNO	
2338	983.A05.sp6:186173	VO	M00004329C:F11

SEQ ID NO:	Sample Name	Overlap	Clone Name
2339	804.B5.sp6:165140	VNO	
2340	983.B05.sp6:186183	VO	M00004331D:H08
2341	983.C05.sp6:186193	VNO	
2342	804.C5.sp6:165152	VNO	
2343	983.D05.sp6:186203	VO	M00004332B:E11
2344	804.D5.sp6:165164	VNO	
2345	983.E05.sp6:186212	VO	M00004332C:E09
2346	804.E5.sp6:165176	VNO	
2347	983.H05.sp6:186239	VNO	
2348	804.H5.sp6:165212	VNO	
2349	804.B6.sp6:165141	VNO	
2350	983.B06.sp6:186184	VO	M00004383A:F02
2351	983.C06.sp6:186194	VO	M00004385C:B11
2352	804.C6.sp6:165153	VNO	
2353	983.D06.sp6:186204	VO	M00004388C:D05
2354	804.D6.sp6:165165	VNO	
2355	804.E6.sp6:165177	VNO	
2356	983.E06.sp6:186213	VO	M00004389C:E01
2357	983.F06.sp6:186222	VNO	
2358	804.F6.sp6:165189	VNO	
2359	983.G06.sp6:186231	VO	M00004406A:H03
2360	804.G6.sp6:165201	VNO	
2361	983.H06.sp6:186240	VNO	
2362	804.H6.sp6:165213	VNO	
2363	804.A7.sp6:165130	VO	M00004408D:A10
2364	983.A07.sp6:186175	VO	M00004408D:A10
2365	983.B07.sp6:186185	VO	M00004410A:E03
2366	983.C07.sp6:186195	VO	M00004412B:E03
2367	983.D07.sp6:186205	VO	M00004419D:G01
2368	804.E7.sp6:165178	VNO	
2369	983.E07.sp6:186214	VO	M00004421A:G04
2370	804.G7.sp6:165202	VNO	
2371	983.G07.sp6:186232	VO	M00004447D:D10
2372	804.H7.sp6:165214	VNO	
2373	983.H07.sp6:186241	VO	M00004449D:H01
2374	983.A08.sp6:186176	VO	M00004460B:H09
2375	804.A8.sp6:165131	VNO	
2376	804.B8.sp6:165143	VNO	
2377	983.B08.sp6:186186	VNO	
2378	983.C08.sp6:186196	VO	M00004465C:B10
2379	804.C8.sp6:165155	VNO	
2380	983.D08.sp6:186206	VO	M00004465C:B12
2381	804.D8.sp6:165167	VNO	

SEQ ID NO:	Sample Name	Overlap	Clone Name
2382	983.E08.sp6:186215	VNO	
2383	804.E8.sp6:165179	VNO	
2384	983.F08.sp6:186224	VO	M00004467A:F09
2385	804.F8.sp6:165191	VNO	
2386	804.G8.sp6:165203	VNO	
2387	983.G08.sp6:186233	VO	M00004467D:F09
2388	804.H8.sp6:165215	VNO	
2389	983.H08.sp6:186242	VO	M00004469A:C12
2390	804.A9.sp6:165132	VNO	
2391	983.A09.sp6:186177	VNO	
2392	983.B09.sp6:186187	VO	M00004491D:D07
2393	804.B9.sp6:165144	VNO	
2394	804.C9.sp6:165156	VNO	
2395	983.C09.sp6:186197	VO	M00004497C:E09
2396	983.D09.sp6:186207	VO	M00004498B:E01
2397	804.D9.sp6:165168	VNO	
2398	804.E9.sp6:165180	VNO	
2399	983.E09.sp6:186216	VO	M00004501A:G06
2400	983.F09.sp6:186225	VO	M00004506C:H10
2401	804.G9.sp6:165204	VNO	
2402	983.G09.sp6:186234	VO	M00004508A:G12
2403	804.H9.sp6:165216	VNO	
2404	983.H09.sp6:186243	VO	M00004508B:G02
2405	804.A10.sp6:165133	VNO	
2406	983.A10.sp6:186178	VO	M00004509A:H02
2407	983.B10.sp6:186188	VNO	
2408	804.B10.sp6:165145	VNO	
2409	983.C10.sp6:186198	VO	M00004609C:C11
2410	992.B01.sp6:186331	VO	M00005294D:H02
2411	992.C01.sp6:186343	VO	M00005326B:F03
2412	992.G01.sp6:186391	VO	M00005342A:C04
2413	992.H01.sp6:186403	VO	M00005342A:D04
2414	992.A02.sp6:186320	VO	M00005342B:G10
2415	992.B02.sp6:186332	VO	M00005342D:F03
2416	992.C02.sp6:186344	VO	M00005349B:G01
2417	992.D02.sp6:186356	VO	M00005352B:D02
2418	992.H02.sp6:186404	VO	M00005354C:E02
2419	992.A03.sp6:186321	VO	M00005356A:D09
2420	992.C03.sp6:186345	VO	M00005359D:G07
2421	992.E03.sp6:186369	VO	M00005377A:A04
2422	992.H03.sp6:186405	VO	M00005378A:A08
2423	992.B04.sp6:186334	VO	M00005383D:D06
2424	992.C04.sp6:186346	VO	M00005383D:E07

SEQ ID NO:	Sample Name	Overlap	Clone Name
2425	992.E04.sp6:186370	VNO	
2426	992.F04.sp6:186382	VO	M00005385C:G05
2427	992.G04.sp6:186394	VNO	
2428	992.A05.sp6:186323	VO	M00005388D:F09
2429	992.D05.sp6:186359	VO	M00005393A:E11
2430	992.E05.sp6:186371	VO	M00005394A:G07
2431	992.G05.sp6:186395	VO	M00005397C:B03
2432	992.D06.sp6:186360	VNO	
2433	992.G06.sp6:186396	VO	M00005409D:C02
2434	992.C07.sp6:186349	VO	M00005415C:G08
2435	992.E07.sp6:186373	VO	M00005417A:E10
2436	992.F07.sp6:186385	VNO	
2437	992.A08.sp6:186326	VO	M00005442D:C05
2438	992.B08.sp6:186338	VNO	
2439	992.C08.sp6:186350	VO	M00005444B:E11
2440	992.E08.sp6:186374	VO	M00005446C:D12
2441	992.F08.sp6:186386	VNO	
2442	992.G08.sp6:186398	VNO	
2443	992.H08.sp6:186410	VNO	
2444	992.D09.sp6:186363	VNO	
2445	992.F09.sp6:186387	VO	M00005454C:H12
2446	992.E10.sp6:186376	VO	M00005462C:B02
2447	992.H10.sp6:186412	VO	M00005468A:D08
2448	953.H09.sp6:185217	VO	M00005468A:D08
2449	992.C11.sp6:186353	VO	M00005469D:C11
2450	992.D12.sp6:186366	VO	M00005483D:A12
2451	992.E12.sp6:186378	VO	M00005484A:D09
2452	992.H12.sp6:186414	VNO	
2453	993.A01.sp6:186511	VNO	
2454	993.B01.sp6:186523	VO	M00005491B:C03
2455	993.C01.sp6:186535	VO	M00005493B:A12
2456	993.D01.sp6:186547	VO	M00005493B:C08
2457	993.E01.sp6:186559	VO	M00005493B:E01
2458	993.F01.sp6:186571	VO	M00005494D:F11
2459	993.G01.sp6:186583	VO	M00005496C:A01
2460	993.H01.sp6:186595	VO	M00005496D:A10
2461	993.A02.sp6:186512	VO	M00005497B:H07
2462	993.B02.sp6:186524	VO	M00005497C:C07
2463	993.C02.sp6:186536	VNO	
2464	993.D02.sp6:186548	VO	M00005497C:C12
2465	993.E02.sp6:186560	VO	M00005497C:E03
2466	993.F02.sp6:186572	VO	M00005498B:F08
2467	993.G02.sp6:186584	VO	M00005498C:G05

SEQ ID NO:	Sample Name	Overlap	Clone Name
2468	993.H02.sp6:186596	VO	M00005505A:C08
2469	993.A03.sp6:186513	VO	M00005508A:H01
2470	993.B03.sp6:186525	VO	M00005508B:B04
2471	993.F03.sp6:186573	VO	M00005528D:A10
2472	993.H03.sp6:186597	VO	M00005530B:D03
2473	993.B04.sp6:186526	VO	M00005534A:G06
2474	993.C04.sp6:186538	VO	M00005534B:H10
2475	993.D04.sp6:186550	VO	M00005539D:G07
2476	993.E04.sp6:186562	VO	M00005548B:E03
2477	993.F04.sp6:186574	VO	M00005550B:D09
2478	993.G04.sp6:186586	VO	M00005565C:A08
2479	993.H04.sp6:186598	VO	M00005571A:E11
2480	993.A05.sp6:186515	VO	M00005589C:B03
2481	993.C05.sp6:186539	VNO	
2482	993.D05.sp6:186551	VO	M00005620C:C05
2483	993.E05.sp6:186563	VO	M00005621A:G10
2484	993.F05.sp6:186575	VO	M00005621D:F01
2485	993.G05.sp6:186587	VNO	
2486	993.H05.sp6:186599	VO	M00005626A:B11
2487	993.A06.sp6:186516	VO	M00005631A:A11
2488	993.B06.sp6:186528	VO	M00005632C:D06
2489	993.D06.sp6:186552	VNO	
2490	993.E06.sp6:186564	VO	M00005636C:D11
2491	993.F06.sp6:186576	VO	M00005637B:D12
2492	993.G06.sp6:186588	VNO	
2493	993.H06.sp6:186600	VNO	
2494	993.A07.sp6:186517	VO	M00005642B:C03
2495	993.B07.sp6:186529	VO	M00005645D:F08
2496	993.C07.sp6:186541	VNO	
2497	993.D07.sp6:186553	VNO	
2498	993.E07.sp6:186565	VO	M00005647D:D09
2499	993.F07.sp6:186577	VO	M00005655B:C02
2500	993.G07.sp6:186589	VNO	
2501	993.H07.sp6:186601	VO	M00005703A:C08
2502	993.A08.sp6:186518	VNO	
2503	993.D08.sp6:186554	VO	M00005710A:C08
2504	993.E08.sp6:186566	VO	M00005720A:D03
2505	993.F08.sp6:186578	VO	M00005720B:D09
2506	993.G08.sp6:186590	VNO	
2507	993.H08.sp6:186602	VO	M00005722D:G03
2508	993.A09.sp6:186519	VO	M00005743B:F02
2509	993.B09.sp6:186531	VO	M00005762D:A01
2510	993.C09.sp6:186543	VO	M00005763B:H09

SEQ ID NO:	Sample Name	Overlap	Clone Name
2511	993.F09.sp6:186579	VO	M00005783A:C05
2512	993.G09.sp6:186591	VO	M00005810C:D04
2513	993.H09.sp6:186603	VO	M00005812C:F10
2514	993.A10.sp6:186520	VO	M00005813D:F06
2515	993.C10.sp6:186544	VO	M00005818C:E08
2516	993.D10.sp6:186556	VO	M00005818C:G01
2517	993.E10.sp6:186568	VO	M00006576D:F11
2518	993.G10.sp6:186592	VO	M00006581C:D02
2519	993.H10.sp6:186604	VO	M00006581D:H08
2520	993.A11.sp6:186521	VNO	
2521	993.B11.sp6:186533	VO	M00006582D:E05
2522	993.E11.sp6:186569	VO	M00006594A:E08
2523	993.F11.sp6:186581	VO	M00006594D:F09
2524	993.H11.sp6:186605	VO	M00006596D:H04
2525	993.A12.sp6:186522	VO	M00006601C:A07
2526	993.B12.sp6:186534	VO	M00006601C:E06
2527	993.C12.sp6:186546	VO	M00006601D:F04
2528	993.D12.sp6:186558	VO	M00006604C:H10
2529	993.E12.sp6:186570	VO	M00006607B:E03
2530	993.F12.sp6:186582	VO	M00006607B:F04
2531	993.G12.sp6:186594	VO	M00006609A:G10
2532	1010.A01.sp6:189937	VO	M00022495C:G05
2533	1010.B01.sp6:189947	VO	M00022498C:C08
2534	1010.C01.sp6:189957	VO	M00022504B:E03
2535	1010.D01.sp6:189967	VO	M00022505D:A12
2536	1010.E01.sp6:189976	VO	M00022509D:F06
2537	1010.F01.sp6:189985	VNO	
2538	1010.G01.sp6:189994	VO	M00022515D:C04
2539	1010.H01.sp6:190003	VO	M00022527A:E05
2540	1010.A02.sp6:189938	VO	M00022527D:B03
2541	1010.B02.sp6:189948	VO	M00022531B:D07
2542	1010.C02.sp6:189958	VO	M00022535D:B11
2543	1010.D02.sp6:189968	VO	M00022535D:C04
2544	1010.E02.sp6:189977	VO	M00022536B:B04
2545	1010.G02.sp6:189995	VO	M00022551A:G03
2546	1010.H02.sp6:190004	VO	M00022556B:C04
2547	1010.A03.sp6:189939	VO	M00022556B:G02
2548	1010.B03.sp6:189949	VNO	
2549	1010.C03.sp6:189959	VO	M00022562C:H10
2550	1010.D03.sp6:189969	VNO	
2551	1010.E03.sp6:189978	VO	M00022578B:G05
2552	1010.F03.sp6:189987	VO	M00022578C:B07
2553	1010.G03.sp6:189996	VO	M00022578D:A08

SEQ ID NO:	Sample Name	Overlap	Clone Name
2554	1010.H03.sp6:190005	VO	M00022578D:F03
2555	1010.A04.sp6:189940	VNO	
2556	1010.B04.sp6:189950	VO	M00022583B:E05
2557	1010.C04.sp6:189960	VO	M00022587C:G04
2558	1010.D04.sp6:189970	VO	M00022594B:H12
2559	1010.E04.sp6:189979	VO	M00022597B:F11
2560	1010.F04.sp6:189988	VO	M00022598A:F11
2561	1010.G04.sp6:189997	VNO	
2562	1010.H04.sp6:190006	VO	M00022599D:E07
2563	1010.A05.sp6:189941	VO	M00022600C:A06
2564	1010.B05.sp6:189951	VO	M00022604B:C11
2565	1010.C05.sp6:189961	VO	M00022607B:A04
2566	1010.D05.sp6:189971	VO	M00022613D:C04
2567	1010.E05.sp6:189980	VO	M00022651D:C06
2568	1010.F05.sp6:189989	VNO	
2569	1010.G05.sp6:189998	VNO	
2570	1010.H05.sp6:190007	VO	M00022666B:E12
2571	1010.A06.sp6:189942	VO	M00022666C:H11
2572	1010.B06.sp6:189952	VNO	
2573	1010.C06.sp6:189962	VO	M00022681C:H02
2574	1010.D06.sp6:189972	VO	M00022682A:F12
2575	1010.E06.sp6:189981	VO	M00022685A:F11
2576	1010.F06.sp6:189990	VO	M00022698C:E06
2577	1010.G06.sp6:189999	VO	M00022701B:B12
2578	1010.H06.sp6:190008	VO	M00022708A:C08
2579	1010.A07.sp6:189943	VO	M00022708D:G10
2580	1010.B07.sp6:189953	VO	M00022716D:D08
2581	1010.C07.sp6:189963	VNO	
2582	1010.D07.sp6:189973	VO	M00022725C:B03
2583	1010.E07.sp6:189982	VO	M00022725C:E09
2584	1010.F07.sp6:189991	VO	M00022726A:A06
2585	1010.G07.sp6:190000	VNO	
2586	1010.H07.sp6:190009	VNO	
2587	1010.A08.sp6:189944	VO	M00022730A:E04
2588	1010.B08.sp6:189954	VNO	
2589	1010.C08.sp6:189964	VO	M00022735B:B01
2590	1010.D08.sp6:189974	VO	M00022737A:C08
2591	1010.E08.sp6:189983	VNO	
2592	1010.F08.sp6:189992	VO	M00022745B:G02
2593	1010.G08.sp6:190001	VO	M00022763A:E10
2594	1010.H08.sp6:190010	VO	M00022824C:H11
2595	1010.B09.sp6:189955	VO	M00022835C:E06
2596	1010.C09.sp6:189965	VO	M00022854D:H07

SEQ ID NO:	Sample Name	Overlap	Clone Name
2597	1010.D09.sp6:189975	VO	M00022856A:D02
2598	1010.E09.sp6:189984	VNO	
2599	1010.F09.sp6:189993	VO	M00022856B:F04
2600	1010.G09.sp6:190002	VO	M00022856C:B11
2601	1010.H09.sp6:190011	VO	M00022893C:H11
2602	1010.A10.sp6:189946	VO	M00022897A:F04
2603	1010.B10.sp6:189956	VO	M00022900D:E08
2604	1010.C10.sp6:189966	VO	M00022900D:G03
2605	019.C4.sp6:128426	VO	M00004190A:A09
2606	774.C8.sp6:162530	VO	M00004190A:A09
2607	1036.E07.sp6:188943	VO	M00004190A:A09
2608	019.E11.sp6:128457	VO	M00005817D:E12
2609	993.B10.sp6:186532	VO	M00005817D:E12
2610	019.G5.sp6:128475	VO	M00006927C:F12

Table 1C

SEQ ID NO:	Sequence Name	THC Accession No.
2611	RTA00000587F.p.24.1.Seq	THC226834
2612	RTA00000629F.l.02.1.Seq	THC210324
2613	RTA00000623F.n.17.1.Seq	THC208388
2614	RTA00000593F.i.08.2.Seq	H91190
2615	RTA00000622F.b.03.1.Seq	AA554045
2616	RTA00000618F.e.06.1.Seq	THC226692
2617	RTA00000592F.o.02.1.Seq	AA099789
2618	RTA00000618F.c.04.1.Seq	THC222808
2619	RTA00000590F.i.01.1.Seq	THC173163
2620	RTA00000606F.o.14.1.Seq	THC223717
2621	RTA00000626F.d.07.1.Seq	THC234888
2622	RTA00000587F.l.08.1.Seq	THC104384
2623	RTA00000586F.a.13.1.Seq	THC140691
2624	RTA00000617F.a.17.1.Seq	THC221850
2625	RTA00000615F.b.23.1.Seq	THC205191
2626	RTA00000632F.f.10.1.Seq	N39216
2627	RTA00000607F.o.13.2.Seq	THC233619
2628	RTA00000622F.c.12.1.Seq	THC118482
2629	RTA00000625F.b.07.1.Seq	THC223154
2630	RTA00000587F.j.01.1.Seq	H63018
2631	RTA00000608F.i.15.1.Seq	THC216448
2632	RTA00000592F.j.06.1.Seq	THC148215
2633	RTA00000589F.b.14.1.Seq	THC158020
2634	RTA00000633F.g.19.1.Seq	THC202541
2635	RTA00000620F.o.07.1.Seq	THC155200
2636	RTA00000586F.p.01.1.Seq	AA558590
2637	RTA00000630F.l.10.1.Seq	THC204748
2638	RTA00000626F.c.13.1.Seq	AA159259
2639	RTA00000591F.m.06.1.Seq	THC227858
2640	RTA00000630F.i.11.1.Seq	THC228806
2641	RTA00000621F.h.08.1.Seq	THC163604
2642	RTA00000589F.d.10.1.Seq	THC177076
2643	RTA00000597F.p.01.1.Seq	THC210746
2644	RTA00000619F.c.13.1.Seq	R57955
2645	RTA00000607F.c.07.2.Seq	THC208762
2646	RTA00000595F.b.02.1.Seq	THC233682
2647	RTA00000631F.h.04.1.Seq	THC223281
2648	RTA00000596F.p.18.1.Seq	THC197103
2649	RTA00000586F.o.13.1.Seq	THC222729
2650	RTA00000610F.p.17.1.Seq	EST19015
2651	RTA00000596F.c.05.1.Seq	EST72617

SEQ ID NO:	Sequence Name	THC Accession No.
2652	RTA00000632F.j.19.1.Seq	THC90741
2653	RTA00000607F.e.23.2.Seq	AA639216
2654	RTA00000628F.b.19.1.Seq	THC118075
2655	RTA00000609F.d.13.1.Seq	THC195579
2656	RTA00000621F.k.03.1.Seq	EST70278
2657	RTA00000592F.l.04.1.Seq	THC91941
2658	RTA00000592F.k.09.1.Seq	THC229803
2659	RTA00000622F.e.17.1.Seq	R57425
2660	RTA00000628F.g.13.1.Seq	THC176706
2661	RTA00000592F.k.23.1.Seq	THC232202
2662	RTA00000609F.m.04.2.Seq	AA507611
2663	RTA00000626F.b.04.1.Seq	EST69420
2664	RTA00000591F.m.01.1.Seq	H41850
2665	RTA00000608F.n.23.1.Seq	THC214886
2666	RTA00000583F.d.19.1.Seq	THC229251
2667	RTA00000621F.p.15.1.Seq	THC212450
2668	RTA00000583F.n.05.1.Seq	AA252468
2669	RTA00000597F.f.17.1.Seq	THC219322
2670	RTA00000606F.l.10.1.Seq	THC225232
2671	RTA00000618F.n.14.1.Seq	THC216591
2672	RTA00000612F.h.05.3.Seq	THC158250
2673	RTA00000619F.a.24.1.Seq	AA437370
2674	RTA00000617F.k.13.1.Seq	AA244445
2675	RTA00000623F.h.07.1.Seq	THC212330
2676	RTA00000620F.e.01.1.Seq	THC167493
2677	RTA00000620F.h.10.1.Seq	THC232456
2678	RTA00000589F.e.21.2.Seq	THC208239
2679	RTA00000626F.b.22.1.Seq	THC225644
2680	RTA00000620F.i.16.1.Seq	AA536090
2681	RTA00000613F.c.17.1.Seq	THC92470
2682	RTA00000621F.c.12.1.Seq	THC156244
2683	RTA00000618F.b.17.1.Seq	THC209838
2684	RTA00000585F.d.16.1.Seq	THC211870
2685	RTA00000592F.a.06.1.Seq	THC233200
2686	RTA00000583F.p.08.1.Seq	THC196844
2687	RTA00000622F.h.21.1.Seq	EST12698
2688	RTA00000591F.h.03.1.Seq	THC213771
2689	RTA00000620F.g.22.1.Seq	THC224063
2690	RTA00000588F.l.20.2.Seq	R84876
2691	RTA00000614F.a.20.1.Seq	R84876
2692	RTA00000611F.n.14.3.Seq	THC200742
2693	RTA00000619F.f.23.1.Seq	THC227573

SEQ ID NO:	Sequence Name	THC Accession No.
2694	RTA00000608F.g.24.1.Seq	T93977
2695	RTA00000595F.o.01.2.Seq	EST61392
2696	RTA00000608F.b.23.1.Seq	THC161665
2697	RTA00000606F.o.23.1.Seq	AA464645
2698	RTA00000588F.i.22.3.Seq	THC162216
2699	RTA00000610F.i.13.1.Seq	AA595068
2700	RTA00000608F.b.15.1.Seq	EST11866
2701	RTA00000597F.e.16.1.Seq	N88730
2702	RTA00000610F.h.13.1.Seq	THC195895
2703	RTA00000611F.h.21.2.Seq	EST46722
2704	RTA00000584F.b.06.1.Seq	EST02998
2705	RTA00000584F.b.06.2.Seq	EST02998
2706	RTA00000608F.j.05.1.Seq	EST60433
2707	RTA00000588F.b.03.1.Seq	THC164651

Table 2A: Nearest Neighbor (BlastN vs. Genbank)

SEQ ID	ACC'N	DESCRIP.	P VALUE
571	L17043	Homo sapiens pregnancy-specific beta-1-glycoprotein-11 gene.	1.00E-12
578	M18864	Rat bone protein I (BP-I) mRNA, partial cds.	7.00E-30
609	L13838	Human genomic sequence from chromosome 13, clone ch13lambdacDNA17-18.	4.00E-36
618	U09646	Human carnitine palmitoyltransferase II precursor	1.00E-34
627	U72621	Human LOT1 mRNA, complete cds	1.00E-43
629	M20910	Human 7S L gene, complete.	1.00E-35
636	Z48950	H.sapiens hH3.3B gene for histone H3.3	4.00E-36
639	X00247	Human translocated c-myc gene in Raji Burkitt lymphoma cells	3.00E-44
643	D80007	Human mRNA for KIAA0185 gene, partial cds	7.00E-52
646	U14967	Human ribosomal protein L21 mRNA, complete cds.	2.00E-42
649	M13934	Human ribosomal protein S14 gene, complete cds.	4.00E-45
652	NM_003902.1	Homo sapiens far upstream element binding protein (FUBP) mRNA > :: gb U05040 HSU05040 Human FUSE binding protein mRNA, complete cds.	1.00E-54
657	L41142	Homo sapiens signal transducer and activator of transcription (STAT5) mRNA, complete cds.	2.00E-62
665	Z12112	pWE15A cosmid vector DNA	2.00E-52
667	Z54386	H.sapiens CpG island DNA genomic MseI fragment, clone 10g3, forward read cpg10g3.ft1a	7.00E-48
668	X80333	M.musculus rab18 mRNA	2.00E-52
669	X52126	Human alternatively spliced c-myb mRNA	1.00E-64
671	L26247	Homo sapiens suil1s1 mRNA, complete cds.	3.00E-54
676	NM_001736.1	Homo sapiens complement component 5 receptor 1 C5a anaphylatoxin receptor mRNA, complete cds.	4.00E-56
677	Z50798	G.gallus mRNA for p52	4.00E-55
679	AB002368	Human mRNA for KIAA0370 gene, partial cds	2.00E-58
681	M26697	Human nucleolar protein (B23) mRNA, complete cds.	4.00E-48
683	D42087	Human mRNA for KIAA0118 gene, partial cds	4.00E-56
693	D50734	Rat mRNA of antizyme inhibitor, complete cds	2.00E-50
697	X02344	Homo sapiens beta 2 gene	1.00E-67
698	NM_001067.1	Homo sapiens topoisomerase (DNA) II alpha topoisomerase II (top2) mRNA, complete cds.	7.00E-63
701	U36309	Gallus gallus rhoGap protein mRNA, complete cds	3.00E-62
703	NM_002842.1	Homo sapiens protein tyrosine phosphatase, receptor type, H (PTPRH) mRNA > :: dbj D15049 HUMSAP1C Human mRNA for protein tyrosine phosphatase	2.00E-81
707	U47322	Cloning vector DNA, complete sequence.	1.00E-63

Table 2A: Nearest Neighbor (BlastN vs. Genbank)

SEQ ID	ACC'N	DESCRIP.	P VALUE
714	NM_001190.1	Homo sapiens branched chain aminotransferase 2, mitochondrial (BCAT2) mRNA > :: gb U68418 HSU68418 Human branched chain aminotransferase precursor (BCATm) mRNA, nuclear gene encoding mitochondrial protein, complete cds	4.00E-67
718	S62077	HP1Hs alpha=25 kda chromosomal autoantigen [human, mRNA, 876 nt]	5.00E-68
719	U34991	Human endogenous retrovirus clone c18.4, IHERV-H/HERV-E hybrid multiply spliced protease/integrase mRNA, complete cds, and envelope protein mRNA, partial cds	2.00E-61
722	U18671	Human Stat2 gene, complete cds.	4.00E-77
723	L18964	Human protein kinase C iota isoform (PRKCI) mRNA, complete cds.	4.00E-68
724	D29956	Human mRNA for KIAA0055 gene, complete cds	6.00E-70
725	M77140	H.sapiens pro-galanin mRNA, 3' end.	2.00E-72
728	U51432	Homo sapiens nuclear protein Skip mRNA, complete cds	1.00E-75
729	M84334	Macacca mulatta hnRNP A1-gamma isoform mRNA, complete cds.	5.00E-50
730	NM_002592.1	Homo sapiens proliferating cell nuclear antigen (PCNA) mRNA > :: gb M15796 HUMCYL Human cyclin protein gene, complete cds.	1.00E-74
731	M88458	Human ELP-1 mRNA sequence.	4.00E-76
732	U44940	Mus musculus quaking type I (QKI) mRNA, complete cds	2.00E-69
733	D17577	Mouse mRNA for kinesin-like protein (Kif1b), complete cds	2.00E-71
734	U18920	Human chromosome 17q12-21 mRNA, clone pOV-3, partial cds.	2.00E-72
736	M21188	Human insulin-degrading enzyme (IDE) mRNA, complete cds.	7.00E-82
737	U49058	Rattus norvegicus CTD-binding SR-like protein rA4 mRNA, partial cds	1.00E-67
739	D10630	Mus musculus mRNA for zinc finger protein, complete cds, clone:CTfin51	4.00E-76
740	U29156	Mus musculus eps15R mRNA, complete cds.	3.00E-84
741	Y08135	M.musculus mRNA for ASM-like phosphodiesterase 3a	1.00E-86
742	U90567	Gallus gallus glutamine rich protein mRNA, partial cds	5.00E-58
743	U58280	Mus musculus second largest subunit of RNA polymerase I (RPA2) mRNA, complete cds	4.00E-77
744	S79539	Pat-12=Pat-12 product [mice, embryonic stem ES cells, mRNA, 2781 nt]	9.00E-84
745	D30666	Rat mRNA for brain acyl-CoA synthetase II, complete cds	2.00E-89
746	U29156	Mus musculus eps15R mRNA, complete cds.	2.00E-92

Table 2A: Nearest Neighbor (BlastN vs. Genbank)

SEQ ID	ACC'N	DESCRIP.	P VALUE
748	U36909	Bos taurus Rho-associated kinase mRNA. complete cds	e-104
749	L36315	Mus musculus (clone pMLZ-1) zinc finger protein	e-105
750	X80169	M.musculus mRNA for 200 kD protein	e-106
751	X83577	M.musculus mRNA for K-glypican	e-107
1060	Z95437	Human DNA sequence from cosmid A1 on chromosome 6 contains ESTs. HERV like retroviral sequence	8.00E-21
1112	X69907	H.sapiens gene for mitochondrial ATP synthase c subunit (P1 form)	6.00E-07
1125	M19390	Bovine interstitial retinol binding protein	8.00E-31
1156	U19247	Homo sapiens interferon-gamma receptor alpha chain gene, exon 7 and complete cds	7.00E-41
1170	U20239	Mus musculus fibrosin mRNA. partial cds	5.00E-38
1171	D26361	Human mRNA for KIAA0042 gene. complete cds	2.00E-41
1195	NM_000694.1	Homo sapiens aldehyde dehydrogenase 7 (ALDH7) mRNA > :: gb U10868 HSU10868 Human aldehyde dehydrogenase ALDH7 mRNA. complete cds.	1.00E-37
1196	U84404	Human E6-associated protein E6-AP/ubiquitin-protein ligase (UBE3A) mRNA, alternatively spliced. complete cds	1.00E-46
1203	U51714	Human GPI protein p137 mRNA, partial sequence. 3'-UTR.	9.00E-53
1204	U58884	Mus musculus SH3-containing protein SH3P7 mRNA. complete cds. similar to Human Drebrin	2.00E-49
1210	X79067	H.sapiens ERF-1 mRNA 3' end	2.00E-72
1212	U00946	Human clone A9A2BRB5 (CAC)n/(GTG)n repeat-containing mRNA	3.00E-54
1217	D11078	Homo sapiens RGH2 gene, retrovirus-like element	6.00E-49
1219	U05989	Rattus norvegicus clone par-4 induced by effectors of apoptosis mRNA. complete cds.	3.00E-64
1220	U13185	Cloning vector pbetagal-Enhancer. complete sequence.	3.00E-52
1222	D87443	Human mRNA for KIAA0254 gene. complete cds	8.00E-63
1225	U19867	Cloning vector pSPL3. exon splicing vector. complete sequence. HIV envelope protein gp160 and beta-lactamase. complete cds.	7.00E-72
1227	U04817	Human protein kinase PITSLRE alpha 2-3 mRNA. complete cds.	4.00E-57
1230	U03687	Photinus pyralis modified luciferase gene, complete cds. and pUC18 derived vector.	3.00E-62
1231	U27196	Gallus gallus zinc finger protein (Fzf-1) mRNA. complete cds.	1.00E-66
1235	X53586	Human mRNA for integrin alpha 6	2.00E-71
1236	J05016	Human (clone pA3) protein disulfide isomerase related protein (ERp72) mRNA. complete cds.	3.00E-67

Table 2A: Nearest Neighbor (BlastN vs. Genbank)

SEQ ID	ACC'N	DESCRIP.	P VALUE
1237	M86752	Human transformation-sensitive protein (IEF SSP 3521) mRNA, complete cds.	1.00E-66
1239	L19437	Human transaldolase mRNA containing transposable element, complete cds	5.00E-70
1241	X90857	H.sapiens mRNA for -14 gene, containing globin regulatory element	1.00E-74
1242	NM_003980.1	Homo sapiens microtubule associated protein 7 mRNA	9.00E-76
1245	U117901	Rattus norvegicus phospholipase A-2-activating protein (plap) mRNA, complete cds.	3.00E-75
1246	S80632	threonine, tyrosine phosphatase [human, brain, mRNA Partial, 1236 nt]	2.00E-69
1247	M76541	Human DNA-binding protein (NF-E1) mRNA, complete cds.	2.00E-80
1248	S55305	14-3-3 protein gamma subtype=putative protein kinase C regulatory protein [rats, brain, mRNA, 3410 nt] > :: dbj D17447 D17447 Rattus norvegicus mRNA for 14-3-3 protein gamma-subtype, complete cds	7.00E-93
1249	NM_002350.1	Homo sapiens v-yes-1 Yamaguchi sarcoma viral related oncogene homolog (LYN) mRNA > :: gb M16038 HUMLYN Human lyn mRNA encoding a tyrosine kinase.	3.00E-86
1250	Y10725	M.musculus mRNA for protein kinase KIS	4.00E-68
1251	U89931	Cloning vector pTRE, complete sequence	3.00E-65
1252	Z46386	Bovine herpesvirus type 4 DNA for nonconserved region F (DN599 like strain)	3.00E-73
1253	L77599	Homo sapiens (clone SEL214) 17q YAC (303G8) RNA.	2.00E-69
1255	Y10746	H.sapiens mRNA for protein containing MBD 1	2.00E-79
1256	L77599	Homo sapiens (clone SEL214) 17q YAC (303G8) RNA.	2.00E-71
1257	Z57619	H.sapiens CpG island DNA genomic MseI fragment, clone 187a6, forward read cpg187a6.ft1b	7.00E-72
1258	U48807	Human MAP kinase phosphatase (MKP-2) mRNA, complete cds	3.00E-76
1260	M27444	Bos taurus (clone pTKD7) dopamine and cyclic AMP-regulated neuronal phosphoprotein (DARPP-32) mRNA, complete cds.	4.00E-76
1261	U37150	Bos taurus peptide methionine sulfoxide reductase (msrA) mRNA, complete cds	5.00E-78
1262	U02435	Cloning vector pSVbeta, complete sequence	1.00E-77
1263	U09662	Cloning vector pSEAP-Enhancer, complete sequence	4.00E-79
1264	M99566	sCos cloning vector SfiI containing bacteriophage promoters and flanking restriction sites in sCos vectors.	1.00E-79
1266	Z12112	pWE15A cosmid vector DNA	4.00E-80

Table 2A: Nearest Neighbor (BlastN vs. Genbank)

SEQ ID	ACC'N	DESCRIP.	P VALUE
1267	U55387	Cricetulus griseus SL15 mRNA. complete cds	2.00E-82
1269	L14684	Rattus norvegicus nuclear-encoded mitochondrial elongation factor G mRNA. complete cds.	2.00E-91
1270	U49057	Rattus norvegicus CTD-binding SR-like protein rA9 mRNA. complete cds	7.00E-93
1271	U57368	Mus musculus EGF repeat transmembrane protein mRNA. complete cds.	4.00E-97
1272	AF000938	Mus musculus RNA polymerase I largest subunit	8.00E-94
1274	X80169	M.musculus mRNA for 200 kD protein	e-102
1275	U09874	Mus musculus SKD3 mRNA. complete cds.	e-105
1276	D78020	Rat mRNA for NFI-A4. partial cds	e-108
1515	Z73360	Human DNA sequence from cosmid 92M18. BRCA2 gene region chromosome 13q12-13	9.00E-22
1522	X62078	H.sapiens mRNA for GM2 activator protein	7.00E-72
1523	X85750	H.sapiens mRNA for transcript associated with monocyte to macrophage differentiation	2.00E-50
1525	X03473	Human gene for histone H1(0)	1.00E-67
1535	X64411	R.norvegicus mRNA for 100 kDa protein	1.00E-54
1538	X13345	Human gene for plasminogen activator inhibitor 1	2.00E-59
1542	D86971	Human mRNA for KIAA0217 gene. partial cds	7.00E-83
1543	NM_001859.1	Homo sapiens solute carrier family 31 gb U83460 HSU83460 Human high-affinity copper uptake protein (hCTR1) mRNA. complete cds	7.00E-72
1544	X68194	H.sapiens h-Spl mRNA	5.00E-57
1545	AB002326	Human mRNA for KIAA0328 gene. partial cds	3.00E-74
1548	D31762	Human mRNA for KIAA0057 gene. complete cds	3.00E-85
1550	X58472	Mouse KIN17 mRNA for kin17 protein	2.00E-57
1551	U13185	Cloning vector pbetagal-Enhancer. complete sequence.	2.00E-79
1552	U55939	Expression vector pVP-Nco. complete sequence.	1.00E-76
1553	D87671	Rattus norvegicus mRNA for TIP120. complete cds	1.00E-87
1554	U25691	Mus musculus lymphocyte specific helicase mRNA. complete cds	4.00E-86
1555	U55939	Expression vector pVP-Nco. complete sequence.	5.00E-79
1556	Z12112	pWE15A cosmid vector DNA	2.00E-79
1557	U13185	Cloning vector pbetagal-Enhancer. complete sequence.	2.00E-79
1558	U13185	Cloning vector pbetagal-Enhancer. complete sequence.	6.00E-80
1559	Z12112	pWE15A cosmid vector DNA	6.00E-80
1560	U09661	Cloning vector pSEAP-Control. complete sequence	6.00E-80
1561	U36909	Bos taurus Rho-associated kinase mRNA. complete cds	2.00E-90
1562	L36610	Mus musculus protein synthesis initiation factor 4A (eIF-4A) gene. exons 5, 6, 7, 8, and 9.	2.00E-71

Table 2A: Nearest Neighbor (BlastN vs. Genbank)

SEQ ID	ACC'N	DESCRIP.	P VALUE
1563	S79463	M-Sema F=a factor in neural network development	1.00E-85
1564	U35312	Mus musculus nuclear receptor co-repressor mRNA. complete cds	1.00E-98
1571	L32977	Homo sapiens (clone fl7252) ubiquinol cytochrome c reductase Rieske iron-sulphur protein (UQCRFS1) gene. exon 2	0
1576	S78454	Mus musculus metal response element DNA-binding protein M96 mRNA. complete cds	0
1586	M88458	Human ELP-1 mRNA sequence.	0
1622	S77512	LAMB2=laminin beta 2 chain [human. placenta. mRNA. 5642 nt]	e-131
1624	X53305	H.sapiens mRNA for stathmin	0
1625	J03591	Human ADP/ATP translocase mRNA. 3' end. clone pHAT3.	0
1630	L18964	Human protein kinase C iota isoform (PRKCI) mRNA. complete cds.	2E-67
1640	D29956	Human mRNA for KIAA0055 gene. complete cds	0
1649	M26697	Human nucleolar protein (B23) mRNA. complete cds.	e-149
1669	U47322	Cloning vector DNA. complete sequence.	4E-65
1689	NM_002079.1	Homo sapiens glutamic-oxaloacetic transaminase 1. soluble (aspartate aminotransferase 1) aspartate aminotransferase mRNA. complete cds.	0
1693	U55939	Expression vector pVP-Nco. complete sequence.	2E-70
1694	D80007	Human mRNA for KIAA0185 gene. partial cds	0
1695	NM_001904.1	Homo sapiens catenin (cadherin-associated protein). beta 1 (88kD) (CTNNB1) mRNA > :: emb X87838 HSRNABECA H.sapiens mRNA for beta-catenin	e-108
1701	U19867	Cloning vector pSPL3, exon splicing vector, complete sequence. HIV envelope protein gp160 and beta-lactamase. complete cds.	1E-44
1702	M31061	Human ornithine decarboxylase gene. complete cds.	0
1721	Z96177	H.sapiens telomeric DNA sequence. clone 10QTEL040. read 10QTELOO040.seq	2E-70
1722	NM_001904.1	Homo sapiens catenin (cadherin-associated protein). beta 1 (88kD) (CTNNB1) mRNA > :: emb X87838 HSRNABECA H.sapiens mRNA for beta-catenin	e-176
1758	X83577	M.musculus mRNA for K-glypican	0
1761	S79539	Pat-12=Pat-12 product [mice. embryonic stem ES cells. mRNA. 2781 nt]	e-176
1773	L38951	Homo sapiens importin beta subunit mRNA. complete cds	1E-78

Table 2A: Nearest Neighbor (BlastN vs. Genbank)

SEQ ID	ACC'N	DESCRIP.	P VALUE
1776	NM_003902.1	Homo sapiens far upstream element binding protein (FUBP) mRNA > :: gb U05040 HSU05040 Human FUSE binding protein mRNA. complete cds.	0
1791	L08783	BlueScribe M13 Plus cloning vector.	0
1809	U86751	Human nucleolar fibrillar center protein (ASE-1) mRNA. complete cds	8E-95
1817	M21188	Human insulin-degrading enzyme (IDE) mRNA. complete cds.	e-134
1831	NM_001614.1	Homo sapiens actin, gamma 1 (ACTG1) mRNA > :: emb X04098 HSACTCGR Human mRNA for cytoskeletal gamma-actin	0.00E+00
1836	U12404	Human Csa-19 mRNA. complete cds.	0
1837	X79236	H.sapiens rps26 gene	e-145
1838	NM_003313.1	Homo sapiens tissue specific transplantation antigen P35B (TSTA3) mRNA > :: gb U58766 HSU58766 Human FX protein mRNA. complete cds	0
1839	M27436	Human tissue factor gene. complete cds. with a Alu repetitive sequence in the 3' untranslated region. > :: gb I05724 Sequence 12 from Patent EP 0278776	e-121
1849	X79067	H.sapiens ERF-1 mRNA 3' end	0
1850	NM_003017.1	Homo sapiens splicing factor, arginine/serine-rich 3 (SFRS3) mRNA > :: gb L10838 HUMSRP20 Homo sapiens SR protein family, pre-mRNA splicing factor (SRp20) mRNA. complete cds.	e-135
1857	U48807	Human MAP kinase phosphatase (MKP-2) mRNA. complete cds	0.00E+00
1858	U48807	Human MAP kinase phosphatase (MKP-2) mRNA. complete cds	0.00E+00
1873	U04817	Human protein kinase PITSLRE alpha 2-3 mRNA. complete cds.	8.00E-53
1876	U18297	Human MST1 (MST1) mRNA. complete cds.	0.00E+00
1877	NM_001859.1	Homo sapiens solute carrier family 31 gb U83460 HSU83460 Human high-affinity copper uptake protein (hCTR1) mRNA. complete cds	0
1889	X70272	single stranded replicative centromeric Saccharomyces cerevisiae /E. coli shuttle vector	3.00E-76
1897	L26050	Human mitochondrial 2,4-dienoyl-CoA reductase mRNA. complete cds.	0.00E+00
1899	X06747	Human hnRNP core protein A1	e-157
1901	M64571	Human microtubule-associated protein 4 mRNA. complete cds.	0.00E+00

Table 2A: Nearest Neighbor (BlastN vs. Genbank)

SEQ ID	ACC'N	DESCRIP.	P VALUE
1908	X65322.1	Cloning vector pCAT-Basic	9.00E-53
1913	NM_002654.1	Homo sapiens pyruvate kinase, muscle (PKM2) mRNA > :: gb M23725 HUMPKM2L Human M2-type pyruvate kinase mRNA, complete cds.	e-159
1916	U49352	Human liver 2,4-dienoyl-CoA reductase mRNA, complete cds	2.00E-71
1926	D31889	Human mRNA for KIAA0072 gene, partial cds > :: gb G27027 G27027 human STS SHGC-31585.	e-167
1941	U43944	Human breast cancer cytosolic NADP(+)-dependent malic enzyme mRNA, partial cds	1.00E-89
1971	U83659	Human multidrug resistance-associated protein homolog (MRP3) mRNA, partial cds	3.00E-85
1996	M33519	Human HLA-B-associated transcript 3 (BAT3) mRNA, complete cds.	3.00E-84
1997	U55387	Cricetus griseus SL15 mRNA, complete cds	e-150
2018	L36315	Mus musculus (clone pMLZ-1) zinc finger protein	e-162
2025	NM_003902.1	Homo sapiens far upstream element binding protein (FUBP) mRNA > :: gb U05040 HSU05040 Human FUSE binding protein mRNA, complete cds.	e-175
2032	X56932	H.sapiens mRNA for 23 kD highly basic protein	0.00E+00
2039	X98654	H.sapiens mRNA for DRES9 protein	9.00E-97
2050	S62077	HP1Hs alpha=25 kda chromosomal autoantigen [human, mRNA, 876 nt]	4.00E-68
2057	M23619	Human HMG-I protein isoform mRNA (HMG1 gene), clone 6A.	e-117
2077	NM_003217.1	Homo sapiens testis enhanced gene transcript	4E-99
2092	U18671	Human Stat2 gene, complete cds.	0.00E+00
2096	D43636	Human mRNA for KIAA0096 gene, partial cds	0
2098	NM_002734.1	Homo sapiens protein kinase, cAMP-dependent, regulatory, type I, alpha (tissue specific extinguisher 1) (PRKARIA) mRNA > :: gb M33336 HUMCAMPPK Human cAMP-dependent protein kinase type I-alpha subunit	0
2099	U72621	Human LOT1 mRNA, complete cds	0.00E+00
2112	NM_003902.1	Homo sapiens far upstream element binding protein (FUBP) mRNA > :: gb U05040 HSU05040 Human FUSE binding protein mRNA, complete cds.	0.00E+00
2118	L41142	Homo sapiens signal transducer and activator of transcription (STAT5) mRNA, complete cds.	0.00E+00
2119	Z48950	H.sapiens hH3.3B gene for histone H3.3	0.00E+00
2153	L09260	Human (chromosome 3p25) membrane protein mRNA.	e-100
2158	X65304.1	Cloning vector pGEM-3Z	e-173

Table 2A: Nearest Neighbor (BlastN vs. Genbank)

SEQ ID	ACC'N	DESCRIP.	P VALUE
2163	NM_003358.1	Homo sapiens UDP-glucose ceramide glucosyltransferase (UGCG) mRNA > :: dbj D50840 HUMCGA Homo sapiens mRNA for ceramide glucosyltransferase. complete cds > :: dbj E12454 E12454 cDNA encoding human ceramide glucosyltransferase	e-141
2179	M95605	Bos taurus S-adenosylmethionine decarboxylase	e-175
2180	M12623	Human non-histone chromosomal protein HMG-17 mRNA. complete cds.	0.00E+00
2181	U79143	Human phosphoinositide 3'-hydroxykinase p110-alpha subunit mRNA. complete cds	0.00E+00
2192	K01906	Human fetal liver c-myc proto-oncogene. exon 3 and flanks.	e-165
2194	X74870	H.sapiens gene for RNA pol II largest subunit. exons 23-29	e-161
2235	L16991	Human thymidylate kinase (CDC8) mRNA. complete cds.	0.00E+00
2257	L08783	BlueScribe M13 Plus cloning vector.	0.00E+00
2276	NM_002245.1	Homo sapiens potassium inwardly-rectifying channel. subfamily K. member 1 (KCNK1) mRNA > :: gb U33632 HSU33632 Human two P-domain K+ channel TWIK-1 mRNA. complete cds.	0
2278	D50734	Rat mRNA of antizyme inhibitor. complete cds	e-157
2279	U26401	Human galactokinase (galK) mRNA. complete cds. >	0.00E+00
2285	U49058	Rattus norvegicus CTD-binding SR-like protein rA4 mRNA. partial cds	e-138
2287	X65306.1	Cloning vector pGEM-3Zf(+)	e-116
2299	NM_001172.1	Homo sapiens arginase. type II (ARG2) mRNA > :: gb U82256 HSU82256 Homo sapiens arginase type II mRNA. complete cds	e-127
2309	M25160	Human Na,K-ATPase beta subunit (ATP1B) gene. exons 3 through 6.	0.00E+00
2315	Y08736	H.sapiens vegf gene. 3'UTR	1.00E-78
2320	U13737	Human cysteine protease CPP32 isoform alpha mRNA. complete cds.	0.00E+00
2323	Y08135	M.musculus mRNA for ASM-like phosphodiesterase 3a	e-148
2324	Y08135	M.musculus mRNA for ASM-like phosphodiesterase 3a	0
2328	NM_001677.1	Homo sapiens ATPase. Na+/K+ transporting. beta 1 polypeptide (ATP1B1) mRNA > :: emb X03747 HSATPBR Human mRNA for Na/K-ATPase beta subunit	1E-77
2337	Y08135	M.musculus mRNA for ASM-like phosphodiesterase 3a	e-168
2364	U54778	Human 14-3-3 epsilon mRNA. complete cds	1E-67
2365	Y08135	M.musculus mRNA for ASM-like phosphodiesterase 3a	0

Table 2A: Nearest Neighbor (BlastN vs. Genbank)

SEQ ID	ACC'N	DESCRIP.	P VALUE
2368	NM_001172.1	Homo sapiens arginase, type II (ARG2) mRNA > :: gb U82256 HSU82256 Homo sapiens arginase type II mRNA, complete cds	e-127
2385	AB002293	Human mRNA for KIAA0295 gene, partial cds	0
2394	M21188	Human insulin-degrading enzyme (IDE) mRNA, complete cds.	2E-81
2425	D87466	Human mRNA for KIAA0276 gene, partial cds	1E-97
2429	U58884	Mus musculus SH3-containing protein SH3P7 mRNA, complete cds, similar to Human Drebrin	4E-96
2441	AB005216	Homo sapiens mRNA for Nck, Ash and phospholipase C gamma binding protein NAP4, partial cds	0
2442	NM_001960.1	Homo sapiens eukaryotic translation elongation factor 1 delta (guanine nucleotide exchange protein) (EEF1D) mRNA > :: emb Z21507 HSEF1DELA H.sapiens EF-1delta gene encoding human elongation factor-1-delta	0.00E+00
2444	M92449	Human LTR mRNA, 3' end of coding region and 3' flank.	e-143
2452	NM_003350.1	Homo sapiens ubiquitin-conjugating enzyme E2 variant 2 (UBE2V2) mRNA > :: emb X98091 HSVITDITR H.sapiens mRNA for protein induced by vitamin D	0
2456	U44975	Homo sapiens DNA-binding protein CPBP (CPBP) mRNA, partial cds	5.00E-69
2459	Z84510	H.sapiens flow-sorted chromosome 6 HindIII fragment, SC6pA28B7	4.00E-66
2463	Z48042	H.sapiens mRNA encoding GPI-anchored protein p137	e-172
2497	U32986	Human xeroderma pigmentosum group E UV-damaged DNA binding factor mRNA, complete cds.	0
2515	NM_003419.1	Homo sapiens zinc finger protein 10 (KOX 1) for zinc finger protein	e-129
2520	Y00711	Human mRNA for lactate dehydrogenase B (LDH-B)	0.00E+00
2526	Y10725	M.musculus mRNA for protein kinase KIS	0.00E+00
2543	X62078	H.sapiens mRNA for GM2 activator protein	e-164
2548	NM_001009.1	Homo sapiens ribosomal protein S5 (RPS5) mRNA complete cds.	0.00E+00
2556	U97188	Homo sapiens putative RNA binding protein KOC	1E-86
2575	NM_002852.1	Homo sapiens pentaxin-related gene, rapidly induced by IL-1 beta (PTX3) mRNA > :: emb X63613 HSPTX3R H.sapiens mRNA for pentaxin (PTX3)	0.00E+00
2578	X67155	H.sapiens mRNA for mitotic kinesin-like protein-1	0.00E+00
2588	M54968	Human K-ras oncogene protein mRNA, complete cds >	e-123
2591	D88687	Homo sapiens mRNA for KM-102-derived reductase-like factor, complete cds	0

Table 2A: Nearest Neighbor (BlastN vs. Genbank)

SEQ ID	ACC'N	DESCRIP.	P VALUE
2593	NM_001436.1	Homo sapiens fibrillarin (FBL) mRNA > :: gb M59849 HUMFIBAA Human fibrillarin (Hfib1) mRNA. complete cds.	e-103
2595	AB002326	Human mRNA for KIAA0328 gene. partial cds	0.00E+00
2598	M11948	Human promyelocytic leukemia cell mRNA. clones pHH58 and pHH81.	9.00E-84

Table 2B Nearest Neighbor (BlastX vs. Non-Redundant Proteins)

SEQ ID	ACC'N	DESCRIP.	P VALUE
37	4239895	(AB016816) MASL1 [Homo sapiens]	9.00E-54
66	4514653	(AB024057) vascular Rab-GAP/TBC-containing protein [Homo sapiens]	6.00E-55
78	4454524	(AC004841) similar to insulin receptor substrate BAP2: similar to PID:g4126477 [Homo sapiens]	6.00E-22
79	4545264	(AF118240) peroxisomal biogenesis factor 16 [Homo sapiens]	1.00E-45
112	3413938	(AB007963) KIAA0494 protein [Homo sapiens]	3.00E-44
122	4239895	(AB016816) MASL1 [Homo sapiens]	1.00E-47
139	4502371	breast cancer antiestrogen resistance 3 >gi 3237306 (U92715) breast cancer antiestrogen resistance 3 protein [Homo sapiens]	2.00E-44
154	4586880	(AB017114) AD 3 [Homo sapiens]	4.00E-48
157	3327170	(AB014578) KIAA0678 protein [Homo sapiens]	2.00E-51
168	3153241	(AF053004) class I cytokine receptor [Homo sapiens]	2.00E-17
171	4138233	(AJ007780) parp-2 gene [Mus musculus]	2.00E-32
174	3287173	(AJ006266) AND-1 protein [Homo sapiens]	2.00E-42
187	4507145	UNKNOWN >gi 3873216 (AF065485) sorting nexin 4 [Homo sapiens]	8.00E-46
207	4153860	(AC005074) similar to U47321 (PID:g1245146) [Homo sapiens]	4.00E-15
224	3236430	(AF067379) ubiquitin-protein ligase E3-alpha [Mus musculus]	3.00E-35
253	3043696	(AB011158) KIAA0586 protein [Homo sapiens]	1.00E-44
260	4519623	(AB017616) homologous to the yeast YGR163 gene [Mus musculus]	2.00E-54
280	4455035	(AF116238) pseudouridine synthase 1 [Homo sapiens]	4.00E-48
304	3075377	(AC004602) F23487_2 [Homo sapiens]	2.00E-21
306	4505611	poly(A)-specific ribonuclease	7.00E-41
373	1825606	(U88169) similar to molybdoterin biosynthesis MOEB proteins [Caenorhabditis elegans]	2.00E-37
382	4586287	(AB004794) DUF140 [Xenopus laevis]	7.00E-45
396	3941342	(AF043250) mitochondrial outer membrane protein [Homo sapiens] >gi 3941347 (AF043253) mitochondrial outer membrane protein [Homo sapiens] >gi 4105703 gb AAD02504	5.00E-40
414	4586844	(AB015633) type II membrane protein	2.00E-46
422	3327078	(AB014532) KIAA0632 protein [Homo sapiens]	6.00E-36
433	3327230	(AB014608) KIAA0708 protein [Homo sapiens]	5.00E-52
472	3372677	(AF061749) tumorous imaginal discs protein Tid56 homolog	7.00E-35
502	4050034	(AF098482) transcriptional coactivator p52 [Homo sapiens]	1.00E-36

Table 2B Nearest Neighbor (BlastX vs. Non-Redundant Proteins)

SEQ ID	ACC'N	DESCRIP.	P VALUE
504	4406632	(AF131801) Unknown [Homo sapiens]	3.00E-21
512	3114828	(AJ005897) JM5 [Homo sapiens]	3.00E-44
530	3766209	(AF071777) IRE1 [Mus musculus]	2.00E-29
561	3043644	(AB011132) KIAA0560 protein [Homo sapiens]	3.00E-43
572	3088575	(AF059531) protein arginine N-methyltransferase 3 [Homo sapiens]	4.00E-46
578	4505891	UNKNOWN >gi 3153235 (AF046889) lysyl hydroxylase isoform 3 [Homo sapiens] >gi 3551836	3.00E-30
590	3114828	(AJ005897) JM5 [Homo sapiens]	1.00E-24
592	3242214	(AJ006778) DRIM protein [Homo sapiens]	2.00E-36
598	4200236	(AL035308) hypothetical protein [Homo sapiens]	8.00E-09
600	3413892	(AB007934) KIAA0465 protein [Homo sapiens]	2.00E-51
635	3043626	(AB011123) KIAA0551 protein [Homo sapiens]	3.00E-31
643	2498864	RRP5 PROTEIN HOMOLOG (KIAA0185) hypothetical protein YM9959.11C of S.cerevisiae. [Homo sapiens]	3.00E-13
670	3402197	(AJ010014) M96A protein [Homo sapiens]	1.00E-21
677	2217964	(Z50798) p52 [Gallus gallus]	7.00E-14
686	3043626	(AB011123) KIAA0551 protein [Homo sapiens]	1.00E-40
697	135470	TUBULIN BETA-5 CHAIN sapiens]	3.00E-21
701	3327056	(AB014521) KIAA0621 protein [Homo sapiens]	2.00E-29
704	4506787	UNKNOWN GTPASE-ACTIVATING-LIKE PROTEIN IQGAP1 (P195) (KIAA0051) protein - human >gi 473931 dbj BAA06123 (D29640) KIAA0051 [Homo sapiens] >gi 536844 (L33075) ras GTPase-activating-like protein [Homo sapiens]	4.00E-41
709	1350762	60S RIBOSOMAL PROTEIN L6 sapiens]	2.00E-22
713	2687400	(AF035824) vesicle soluble NSF attachment protein receptor [Homo sapiens]	1.00E-23
730	2914385	Chain C, Human PcnA >gi 2914387 pdb 1AXC E Chain E. Human PcnA	2.00E-27
731	284076	ERD-2-like protein. ELP-1 - human	1.00E-26
733	2497524	KINESIN-LIKE PROTEIN KIF1B mouse >gi 407339 dbj BAA04503 (D17577) Kif1b [Mus musculus]	9.00E-33
735	3327056	(AB014521) KIAA0621 protein [Homo sapiens]	1.00E-13
736	279567	insulinase (EC 3.4.99.45) - human	2.00E-26
738	487416	(L20302) actin filament protein [Gallus gallus]	3.00E-45
739	1731428	ZINC FINGER PROTEIN ZFP-38	7.00E-35
740	968973	(U29156) involved in signaling by the epidermal growth factor receptor: Method: conceptual translation supplied by author. [Mus musculus]	1.00E-22

Table 2B Nearest Neighbor (BlastX vs. Non-Redundant Proteins)

SEQ ID	ACC'N	DESCRIP.	P VALUE
741	1552350	(Y08135) acid sphingomyelinase-like phosphodiesterase [Mus musculus]	2.00E-35
742	3327098	(AB014542) KIAA0642 protein [Homo sapiens]	3.00E-15
743	3914801	DNA-DIRECTED RNA POLYMERASE I 135 KD POLYPEPTIDE (RNA POLYMERASE I SUBUNIT 2) (RPA135) (RNA POLYMERASE I 127 KD SUBUNIT) >gi 2739048 (AF025424) RNA polymerase I 127 kDa subunit [Rattus norvegicus]	2.00E-45
745	4165018	(D89053) Acyl-CoA synthetase 3 [Homo sapiens]	2.00E-53
746	968973	(U29156) involved in signaling by the epidermal growth factor receptor: Method: conceptual translation supplied by author. [Mus musculus]	3.00E-40
747	4519883	(AB017970) dipeptidyl peptidase III	4.00E-50
748	3327052	(AB014519) KIAA0619 protein [Homo sapiens]	7.00E-30
749	538413	(L36315) zinc finger protein [Mus musculus]	6.00E-55
750	1717793	PROTEIN TSG24 (MEIOTIC CHECK POINT REGULATOR) >gi 1083553 pir A55117 tsg24 protein - mouse	1.00E-50
751	3420277	(AF064826) glypican 4 [Homo sapiens]	3.00E-54
808	4580645	(AF118855) trans-prenyltransferase [Mus musculus]	2.00E-48
829	3882171	(AB018268) KIAA0725 protein [Homo sapiens]	3.00E-24
833	4104976	(AF043117) ubiquitin-fusion degradation protein 2 [Homo sapiens]	2.00E-41
841	3242214	(AJ006778) DRIM protein [Homo sapiens]	4.00E-34
914	4191810	(AB006532) DNA helicase [Homo sapiens]	5.00E-41
959	3043714	(AB011167) KIAA0595 protein [Homo sapiens]	5.00E-20
982	4379097	(Y17999) Dyrk1B protein kinase [Homo sapiens]	3.00E-21
1028	3043712	(AB011166) KIAA0594 protein [Homo sapiens]	2.00E-49
1079	4240227	(AB020676) KIAA0869 protein [Homo sapiens]	4.00E-35
1091	4235226	(AF061025) leucine zipper-EF-hand containing transmembrane protein 1 [Homo sapiens]	6.00E-34
1134	3426268	(AF044201) neural membrane protein 35; NMP35 [Rattus norvegicus]	1.00E-29
1152	4507367	threonyl-tRNA synthetase SYNTHETASE, CYTOPLASMIC (THREONINE--TRNA LIGASE) (THRRS) 6.1.1.3) - human >gi 1464742 (M63180) threonyl-tRNA synthetase [Homo sapiens]	3.00E-26
1153	2072294	(U95097) mitotic phosphoprotein 43 [Xenopus laevis]	1.00E-19
1163	543222	glutamine (Q)-rich factor 1, QRF-1 - mouse factor 1, QRF-1 [mice, B-cell leukemia, BCL1, Peptide Partial, 84 aa]	1.00E-39

Table 2B Nearest Neighbor (BlastX vs. Non-Redundant Proteins)

SEQ ID	ACC'N	DESCRIP.	P VALUE
1164	3335569	(AF072759) fatty acid transport protein 4: FATP4 [Mus musculus]	7.00E-39
1168	2996194	(AF053232) SIK similar protein [Mus musculus]	1.00E-31
1172	2935597	(AC004262) R29368_2 [Homo sapiens]	6.00E-49
1201	2645205	(U63648) p160 myb-binding protein [Mus musculus]	1.00E-21
1204	1407655	(U58884) SH3P7 [Mus musculus]	8.00E-21
1214	2134381	polybromo 1 protein - chicken	8.00E-29
1219	4505613	PRKC, apoptosis, WT1, regulator par-4 [Homo sapiens]	6.00E-34
1229	3757892	(AF079765) enhancer of polycomb [Mus musculus]	3.00E-41
1231	2134436	zinc finger protein - chicken (fragment)	4.00E-37
1232	2393722	(U90313) glutathione-S-transferase homolog [Homo sapiens]	6.00E-34
1234	459002	(U00036) R151.6 gene product [Caenorhabditis elegans]	7.00E-10
1236	119530	PROTEIN DISULFIDE ISOMERASE-RELATED PROTEIN PRECURSOR (ERP72) >gi 87320 pir A23723 protein disulfide-isomerase (EC 5.3.4.1) ERp72 precursor - human protein [Homo sapiens]	3.00E-23
1239	2073541	(L19437) transaldolase [Homo sapiens] >gi 2612879	2.00E-24
1241	984125	(X90857) -14 [Homo sapiens]	2.00E-23
1245	4106818	(AF083395) phospholipase A2-activating protein [Homo sapiens]	4.00E-36
1247	4507955	YY1 transcription factor REPRESSOR PROTEIN YY1 (YIN AND YANG 1) (YY-1) (DELTA TRANSCRIPTION FACTOR) (NF-E1) >gi 38011 emb CAA78455	4.00E-27
1250	1698779	(U70372) PAM COOH-terminal interactor protein 2 [Rattus norvegicus]	6.00E-35
1252	4204684	(AF102542) beta-1,6-N-acetylglucosaminyltransferase core 2/core 4 beta-1,6-N-acetylglucosaminyltransferase: core 2/4-GnT [Homo sapiens]	9.00E-43
1255	2239126	(Y10746) methyl-CpG binding protein [Homo sapiens]	4.00E-16
1259	1747519	(U76759) nuclear protein NIP45 [Mus musculus]	2.00E-29
1260	545790	DARPP-32=dopamine and cAMP-regulated phosphoprotein [human, brain, Peptide, 204 aa] sapiens]	1.00E-29
1261	1709689	PEPTIDE METHIONINE SULFOXIDE REDUCTASE (PEPTIDE MET(O) REDUCTASE) >gi 1205993 taurus]	1.00E-37
1265	2736151	(AF021935) myotonic dystrophy kinase-related Cdc42-binding kinase [Rattus norvegicus]	1.00E-41
1267	3329392	(AF038961) SL15 protein [Homo sapiens]	8.00E-36
1268	4097712	(U67322) HBV associated factor [Homo sapiens]	7.00E-56

Table 2B Nearest Neighbor (BlastX vs. Non-Redundant Proteins)

SEQ ID	ACC'N	DESCRIP.	P VALUE
1269	585084	ELONGATION FACTOR G, MITOCHONDRIAL PRECURSOR (MEF-G) >gi 543383 pir S40780 translation elongation factor G, mitochondrial - rat >gi 310102	7.00E-49
1270	1438534	(U49057) rA9 [Rattus norvegicus]	3.00E-45
1271	1336628	(U57368) EGF repeat transmembrane protein [Mus musculus]	7.00E-47
1272	3914802	DNA-DIRECTED RNA POLYMERASE I LARGEST SUBUNIT (RNA POLYMERASE I 194 KD SUBUNIT) (RPA194)	1.00E-37
1273	3387977	(AF070598) ABC transporter [Homo sapiens]	5.00E-50
1274	1717793	PROTEIN TSG24 (MEIOTIC CHECK POINT REGULATOR) >gi 1083553 pir A55117 tsg24 protein - mouse	2.00E-48
1275	2493735	SKD3 PROTEIN SKD3 [Mus musculus]	7.00E-43
1276	1041038	(D78020) NFI-A4 [Rattus norvegicus]	3.00E-26
1284	4455118	(AF125158) zinc finger DNA binding protein 99	9.00E-41
1322	4049922	(AF072810) transcription factor WSTF [Homo sapiens]	4.00E-48
1338	4586287	(AB004794) DUF140 [Xenopus laevis]	3.00E-45
1345	3435244	(AF083322) centriole associated protein CEP110 [Homo sapiens]	2.00E-40
1370	3413886	(AB007931) KIAA0462 protein [Homo sapiens]	2.00E-35
1462	3882311	(AB018338) KIAA0795 protein [Homo sapiens]	4.00E-47
1497	4240167	(AB020646) KIAA0839 protein [Homo sapiens]	2.00E-46
1517	4191610	(AF117107) IGF-II mRNA-binding protein 2 [Homo sapiens]	3.00E-49
1519	3135669	(AF064084) prenylcysteine carboxyl methyltransferase	1.00E-39
1529	3043548	(AB011084) KIAA0512 protein [Homo sapiens]	2.00E-47
1531	3093476	(AF008915) EVI-5 homolog [Homo sapiens]	6.00E-19
1532	3834629	(AF094519) diaphanous-related formin: p134 mDia2 [Mus musculus]	1.00E-32
1533	3193226	(AF068706) gamma2-adaptin [Homo sapiens]	1.00E-46
1534	3851584	(AF092563) chromosome-associated protein-E [Homo sapiens]	4.00E-48
1535	4101695	(AF006010) progesterin induced protein [Homo sapiens]	5.00E-30
1550	3850704	(AJ005273) Kin17 [Homo sapiens]	9.00E-24
1553	4240147	(AB020636) KIAA0829 protein [Homo sapiens]	9.00E-41
1554	2137490	lymphocyte specific helicase - mouse musculus]	5.00E-35
1561	3327052	(AB014519) KIAA0619 protein [Homo sapiens]	1.00E-41
1563	2137494	M-sema F protein precursor - mouse F [mice, neonatal brain. Peptide, 834 aa] [Mus sp.]	7.00E-34

Table 2B Nearest Neighbor (BlastX vs. Non-Redundant Proteins)

SEQ ID	ACC'N	DESCRIP.	P VALUE
1564	2137603	nuclear receptor co-repressor N-CoR - mouse musculus] >gi1583865 prf 2121436A thyroid hormone receptor co-repressor [Mus musculus]	9.00E-41
1565	2674107	(AF023451) guanine nucleotide-exchange protein [Bos taurus]	3.00E-48
1587	3659505	(AC005084) similar to mouse mCASK-A: similar to e1288039	1.00E-57
1649	114762	NUCLEOPHOSMIN (NPM) (NUCLEOLAR PHOSPHOPROTEIN B23) (NUMATRIN) (NUCLEOLAR PROTEIN NO38) sapiens]	6.00E-35
1651	3327056	(AB014521) KIAA0621 protein [Homo sapiens]	8.00E-40
1688	4545264	(AF118240) peroxisomal biogenesis factor 16 [Homo sapiens]	2.00E-65
1694	2498864	RRP5 PROTEIN HOMOLOG (KIAA0185) hypothetical protein YM9959.11C of S.cerevisiae. [Homo sapiens]	7.00E-77
1758	3420277	(AF064826) glypican 4 [Homo sapiens]	4.00E-76
1768	3088575	(AF059531) protein arginine N-methyltransferase 3 [Homo sapiens]	7.00E-97
1771	4050034	(AF098482) transcriptional coactivator p52 [Homo sapiens]	2.00E-58
1811	4506357	UNKNOWN: PZR >gi3851145 sapiens]	2.00E-60
1830	3387977	(AF070598) ABC transporter [Homo sapiens]	e-113
1836	1709974	60S RIBOSOMAL PROTEIN L10A protein L10a [Rattus norvegicus] Ribosomal Protein RPL10A) [Homo sapiens]	e-111
1838	4507709	tissue specific transplantation antigen P35B >gi1381179 (U58766) FX [Homo sapiens]	9.00E-90
1876	1117791	(U18297) MST1 [Homo sapiens]	4E-85
1877	4507015	copper transporter 1	3.00E-72
1897	4503301	2,4-dienoyl CoA reductase REDUCTASE. MITOCHONDRIAL PRECURSOR (2,4-DIENOYL-COA REDUCTASE (NADPH)) (4-ENOYL-COA REDUCTASE (NADPH)) precursor, mitochondrial - human >gi602703 (L26050) 2,4-dienoyl-CoA reductase [Homo sapiens] >gi2673979 precursor [Homo sapiens] >gi4126313 (AF049895) 2,4-dienoyl-CoA reductase [Homo sapiens]	6E-94
1901	126743	MICROTUBULE-ASSOCIATED PROTEIN 4 human >gi187383 (M64571) microtubule-associated protein 4 [Homo sapiens]	6E-84
1914	4505987	PTPRF interacting protein, binding protein 1 (liprin beta 1) >gi3309539 (AF034802) liprin-beta1 [Homo sapiens]	4E-89
1920	3043644	(AB011132) KIAA0560 protein [Homo sapiens]	e-108

Table 2B Nearest Neighbor (BlastX vs. Non-Redundant Proteins)

SEQ ID	ACC'N	DESCRIP.	P VALUE
1944	3413892	(AB007934) KIAA0465 protein [Homo sapiens]	7.00E-87
1956	4185796	(AF103796) placenta-specific ATP-binding cassette transporter [Homo sapiens]	2E-68
1973	4507145	UNKNOWN >gi 3873216 (AF065485) sorting nexin 4 [Homo sapiens]	1.00E-73
2008	1083566	zinc finger protein/transactivator Zfp-38 - mouse >gi 55477 emb CAA45280 (X63747) Zfp-38 [Mus musculus]	2E-64
2018	1806134	(Z67747) zinc finger protein [Mus musculus]	7.00E-78
2032	730451	60S RIBOSOMAL PROTEIN L13A (23 KD HIGHLY BASIC PROTEIN) >gi 345897 pir S29539 basic protein. 23K - human >gi 23691 emb CAA40254 (X56932) 23 kD highly basic protein [Homo sapiens]	4.00E-87
2285	4102967	(AF023142) pre-mRNA splicing SR protein rA4 [Homo sapiens]	1.00E-33
2317	3108093	(AF061258) LIM protein [Homo sapiens]	6.00E-82
2318	3170887	(AF061555) ubiquitin-protein ligase E3-alpha [Mus musculus]	e-104
2324	1552350	(Y08135) acid sphingomyelinase-like phosphodiesterase [Mus musculus]	6.00E-91
2365	1552350	(Y08135) acid sphingomyelinase-like phosphodiesterase [Mus musculus]	e-106
2366	3242214	(AJ006778) DRIM protein [Homo sapiens]	e-114
2387	4514653	(AB024057) vascular Rab-GAP/TBC-containing protein [Homo sapiens]	e-121
2441	2443367	(AB005216) Nck, Ash and phospholipase C gamma-binding protein NAP4 [Homo sapiens]	e-120
2475	119110	EBNA-1 NUCLEAR PROTEIN herpesvirus 4 (strain B95-8) >gi 1334880 emb CAA24816.1 gene. [Human herpesvirus 4]	2.00E-38
2479	121640	GLYCINE-RICH CELL WALL STRUCTURAL PROTEIN PRECURSOR >gi 72320 pir KNMU glycine-rich cell wall protein precursor - Arabidopsis thaliana	8.00E-31
2495	1362077	glycin-rich protein - cowpea (fragment)	2E-40
2519	121640	GLYCINE-RICH CELL WALL STRUCTURAL PROTEIN PRECURSOR >gi 72320 pir KNMU glycine-rich cell wall protein precursor - Arabidopsis thaliana	9.00E-27
2546	2674107	(AF023451) guanine nucleotide-exchange protein [Bos taurus]	5E-89
2548	3717978	(Y12431) 5S ribosomal protein [Mus musculus]	5E-94
2556	4191610	(AF117107) IGF-II mRNA-binding protein 2 [Homo sapiens]	e-111

Table 2B Nearest Neighbor (BlastX vs. Non-Redundant Proteins)

SEQ ID	ACC'N	DESCRIP.	P VALUE
2578	2119281	CHO1 antigen - Chinese hamster	e-101
2579	3435244	(AF083322) centriole associated protein CEP110 [Homo sapiens]	2E-70
2591	1843434	(D88687) KM-102-derived reductase-like factor [Homo sapiens]	4.00E-91
2604	3834629	(AF094519) diaphanous-related formin: p134 mDia2 [Mus musculus]	1E-49

Table 3A Profile Hits

SEQ ID NO:	Description	Start	Stop	Dir
1967	14_3_3 proteins	166	845	for
2366	3'5'-cyclic nucleotide phosphodiesterases	64	573	for
1579	4 transmembrane integral membrane proteins	300	924	rev
1978	4 transmembrane integral membrane proteins	340	941	rev
1652	7 transmembrane receptor (rhodopsin family)	109	647	rev
1927	7 transmembrane receptor (rhodopsin family)	84	947	rev
2068	7 transmembrane receptor (rhodopsin family)	305	975	for
1598	7 transmembrane receptor (Secretin family)	50	1269	for
1719	7 transmembrane receptor (Secretin family)	63	1160	rev
1911	7 transmembrane receptor (Secretin family)	38	869	rev
1927	7 transmembrane receptor (Secretin family)	237	930	rev
2068	7 transmembrane receptor (Secretin family)	188	975	for
2341	7 transmembrane receptor (Secretin family)	377	1524	rev
1671	ATPases Associated with Various Cellular Activities	136	718	for
1672	ATPases Associated with Various Cellular Activities	271	765	for
1688	ATPases Associated with Various Cellular Activities	206	709	rev
1796	ATPases Associated with Various Cellular Activities	139	783	for
1830	ATPases Associated with Various Cellular Activities	265	713	for
1872	ATPases Associated with Various Cellular Activities	152	616	rev
1913	ATPases Associated with Various Cellular Activities	12	510	for
1922	ATPases Associated with Various Cellular Activities	125	658	for
1964	ATPases Associated with Various Cellular Activities	97	752	for
1997	ATPases Associated with Various Cellular Activities	185	664	for
2032	ATPases Associated with Various Cellular Activities	69	485	for
2170	ATPases Associated with Various Cellular Activities	73	550	for
2177	ATPases Associated with Various Cellular Activities	340	928	for

SEQ ID NO:	Description	Start	Stop	Dir
2290	ATPases Associated with Various Cellular Activities	872	1390	rev
2343	ATPases Associated with Various Cellular Activities	122	635	for
2358	ATPases Associated with Various Cellular Activities	84	492	rev
2390	ATPases Associated with Various Cellular Activities	31	434	rev
2414	ATPases Associated with Various Cellular Activities	953	1358	rev
2461	ATPases Associated with Various Cellular Activities	192	690	rev
2476	ATPases Associated with Various Cellular Activities	51	593	for
2482	ATPases Associated with Various Cellular Activities	135	615	rev
2578	ATPases Associated with Various Cellular Activities	0	673	for
1623	Basic region plus leucine zipper transcription factors	81	277	for
1715	C2 domain (prot. kinase C like)	403	582	for
2426	C2 domain (prot. kinase C like)	493	637	for
2238	Cysteine proteases	359	984	rev
1630	DEAD and DEAH box helicases	34	690	rev
1865	DEAD and DEAH box helicases	43	753	for
2517	DEAD and DEAH box helicases	426	719	for
1714	Dual specificity phosphatase, catalytic domain	365	696	rev
1728	Dual specificity phosphatase, catalytic domain	243	597	for
2087	Dual specificity phosphatase, catalytic domain	786	1566	for
1595	EF-hand	556	630	for
1671	Eukaryotic aspartyl proteases	116	763	for
1778	Eukaryotic aspartyl proteases	92	1008	rev
1903	Eukaryotic aspartyl proteases	73	603	rev
1945	Eukaryotic aspartyl proteases	147	694	rev
1963	Eukaryotic aspartyl proteases	38	740	rev
1991	Eukaryotic aspartyl proteases	404	1113	rev
2130	Eukaryotic aspartyl proteases	237	829	rev
2138	Eukaryotic aspartyl proteases	117	729	rev
2193	Eukaryotic aspartyl proteases	217	1397	rev
2290	Eukaryotic aspartyl proteases	413	1366	rev
2291	Eukaryotic aspartyl proteases	8	710	rev

SEQ ID NO:	Description	Start	Stop	Dir
2348	Eukaryotic aspartyl proteases	291	1146	rev
2430	Eukaryotic aspartyl proteases	216	1158	rev
2496	Eukaryotic aspartyl proteases	228	659	for
2523	Eukaryotic aspartyl proteases	276	1291	rev
2589	Eukaryotic aspartyl proteases	525	1431	for
1968	Fibronectin type II domain	455	565	rev
1779	G-protein alpha subunit	24	583	rev
1621	Helicases conserved C-terminal domain	160	309	for
1652	Helicases conserved C-terminal domain	363	560	rev
2192	Helix-loop-helix DNA binding domain	224	382	for
2181	kinase domain of tors	474	713	for
1825	mkk like kinases	17	626	rev
1876	mkk like kinases	35	719	for
2039	mkk like kinases	114	527	for
2526	mkk like kinases	9	463	for
1782	Neurotransmitter-gated ion-channel	267	1411	for
1922	Neurotransmitter-gated ion-channel	367	1168	for
2068	Neurotransmitter-gated ion-channel	222	1024	for
2102	Neurotransmitter-gated ion-channel	352	1273	for
2154	Neurotransmitter-gated ion-channel	377	1159	for
2538	Neurotransmitter-gated ion-channel	112	1120	for
1621	protein kinase	153	743	for
1630	protein kinase	123	904	for
1705	protein kinase	471	1072	for
1706	protein kinase	190	609	for
1710	protein kinase	235	641	for
1744	protein kinase	8	711	rev
1767	protein kinase	90	537	for
1776	protein kinase	200	524	rev
1782	protein kinase	706	1331	for
1822	protein kinase	24	666	for
1825	protein kinase	56	593	rev
1844	protein kinase	263	824	for
1850	protein kinase	217	779	for
1876	protein kinase	290	711	for
1977	protein kinase	38	776	for
2051	protein kinase	14	657	for
2112	protein kinase	202	644	rev
2169	protein kinase	1	656	for
2205	protein kinase	57	689	for
2242	protein kinase	33	646	for

SEQ ID NO:	Description	Start	Stop	Dir
2291	protein kinase	630	1148	rev
2454	protein kinase	49	761	rev
2526	protein kinase	0	463	for
2558	protein kinase	77	590	for
1719	Protein Tyrosine Phosphatase	82	482	rev
1769	Protein Tyrosine Phosphatase	71	461	rev
2062	Protein Tyrosine Phosphatase	270	704	for
2197	Protein Tyrosine Phosphatase	359	851	for
2275	Protein Tyrosine Phosphatase	56	680	for
1850	RNA recognition motif. (aka RRM, RBD, or RNP domain)	165	365	for
2194	RNA recognition motif. (aka RRM, RBD, or RNP domain)	37	174	for
2441	SH2 Domain	201	362	for
1618	Thioredoxins	253	554	for
1579	Trypsin	252	1007	rev
2290	Trypsin	350	1164	rev
2341	Trypsin	447	1211	rev
2421	Trypsin	14	765	rev
2430	Trypsin	700	1556	rev
2438	Trypsin	47	670	rev
2281	WD domain. G-beta repeats	70	161	for
1579	wnt family of developmental signaling proteins	282	1017	rev
1653	wnt family of developmental signaling proteins	154	978	rev
1778	wnt family of developmental signaling proteins	38	858	rev
1826	wnt family of developmental signaling proteins	574	1318	rev
1875	wnt family of developmental signaling proteins	578	1313	rev
1904	wnt family of developmental signaling proteins	205	1068	rev
1992	wnt family of developmental signaling proteins	2	824	rev
2004	wnt family of developmental signaling proteins	621	1420	rev
2129	wnt family of developmental signaling proteins	394	1343	rev
2145	wnt family of developmental signaling proteins	162	1027	rev
2204	wnt family of developmental signaling proteins	274	1405	rev
2238	wnt family of developmental signaling proteins	560	1195	rev
2290	wnt family of developmental signaling proteins	250	1273	rev
2291	wnt family of developmental signaling proteins	523	1409	rev
2294	wnt family of developmental signaling proteins	297	1237	rev
2341	wnt family of developmental signaling proteins	51	1002	rev
2343	wnt family of developmental signaling proteins	28	1180	rev
2348	wnt family of developmental signaling proteins	638	1614	rev
2373	wnt family of developmental signaling proteins	30	1078	rev

SEQ ID NO:	Description	Start	Stop	Dir
2409	wnt family of developmental signaling proteins	4	1074	rev
2410	wnt family of developmental signaling proteins	208	1107	rev
2414	wnt family of developmental signaling proteins	242	1068	rev
2421	wnt family of developmental signaling proteins	159	1057	rev
2430	wnt family of developmental signaling proteins	844	1691	rev
2436	wnt family of developmental signaling proteins	107	784	rev
2438	wnt family of developmental signaling proteins	127	1226	rev
2463	wnt family of developmental signaling proteins	5	704	rev
2473	wnt family of developmental signaling proteins	328	1193	rev
2511	wnt family of developmental signaling proteins	341	1222	rev
2523	wnt family of developmental signaling proteins	820	1617	rev
2528	wnt family of developmental signaling proteins	461	1283	rev
1735	Zinc finger, C2H2 type	495	557	for
1942	Zinc finger, C2H2 type	500	562	for
2018	Zinc finger, C2H2 type	279	341	for
2254	Zinc finger, C2H2 type	148	210	for
2515	Zinc finger, C2H2 type	422	484	for

Table 3B Profile Hits for Contigs				
SEQ ID NO:	Description	Start	Stop	Dir
2641	ATPases Associated with Various Cellular Activities	118	661	for
2655	ATPases Associated with Various Cellular Activities	135	536	for
2685	ATPases Associated with Various Cellular Activities	142	574	for
2648	DEAD and DEAH box helicases	66	931	rev
2686	Helicases conserved C-terminal domain	51	242	for
2661	Neurotransmitter-gated ion-channel	169	738	rev
2640	Protein phosphatase 2A regulatory subunit PR55	275	1510	for
2655	Protein phosphatase 2A regulatory subunit PR55	55	1087	for
2670	Protein phosphatase 2A regulatory subunit PR55	13	1183	for
2684	Protein phosphatase 2A regulatory subunit PR55	511	1861	rev
2679	Protein Tyrosine Phosphatase	292	768	for
2668	Thioredoxins	182	475	for

Table 22 Deposits of Pooled Clones

ES34	ES35	ES36	ES37
M00006992C:G02	M00005468A:D08	M00005452C:A02	M00022171D:B08
M00006756D:E10	M00021892B:H03	M00001382C:C09	M00008061A:F02
M00003984C:F04	M00001390A:C06	M00004841C:B09	M00003820C:A09
M00007125D:E03	M00022074D:F11	M00001441D:H05	M00022109B:A11
M00006650A:A10	M00005460B:D02	M00022716D:D08	M00005342D:F03
M00001452B:H06	M00022423B:D03	M00022828C:E04	M00022070B:C10
M00022972D:C10	M00007140A:F11	M00004350B:F06	M00006966B:B09
M00022305C:A01	M00004081B:C11	M00005685B:D08	M00022381C:C12
M00007010B:H01	M00005480A:H12	M00004190A:A09	M00003991B:B05
M00021946D:C11	M00008015D:E09	M00004054D:D02	M00022404D:G05

ES38	ES39	ES40	ES41
M00021912B:H11	M00007118B:B04	M00006993B:B09	M00007974B:C11
M00005378C:A10	M00007019A:B01	M00004242C:C01	M00021860B:G06
M00022578C:B07	M00021682B:D12	M00007986C:C05	M00006927C:F12
M00005513A:D08	M00005411D:A03	M00004115A:G09	M00022582C:E12
M00022176C:A08	M00006641C:H02	M00022600C:A06	M00006618C:G08
M00006822D:F07	M00007041B:C05	M00005384A:A01	M00005450B:B01
M00004031A:B04	M00005444B:E11	M00021667D:E03	M00001417B:E01
M00021927D:D12	M00022745B:G02	M00008078C:C06	M00003825B:A05
M00001553D:B06	M00022685A:F11	M00007985A:B09	M00001370B:B04
M00022404B:H05	M00004446A:G01	M00007953B:B03	M00006727B:E09

ES42	ES43	ES44	ES45
M00001478A:B06	M00006923B:H08	M00006615B:F05	M00005468D:F04
M00003972B:A11	M00005377D:F11	M00005486C:B03	M00006720C:C11
M00005477C:D08	M00006640B:H09	M00007124C:A11	M00005817D:E12
M00006745A:A01	M00005404C:F02	M00006995D:A03	M00001669B:A03
M00007090B:A02	M00004030A:G12	M00007149D:G06	M00003998A:G12
M00007152A:B04	M00006704D:D03	M00006990D:D06	M00004045A:B12
M00006953B:H10	M00006810D:A05	M00005530B:E04	M00004130D:E04
M00005399D:B02	M00005481C:A05	M00003918C:E07	M00004160A:D07
M00006987B:F04	M00005411A:C07	M00007163A:B10	M00001655A:F07
M00005772A:F03	M00003970A:G10	M00005485C:A03	M00001468D:D11

ES46
M00004217A:A05
M00004183D:B07
M00001415D:A05
M00004158C:F03
M00004031D:G02

Table 23. Library Deposits

ES47	ES48	ES49	ES50
M00001399D:F09	M00004217D:G10	M00004508A:G12	M00021653A:G07
M00001455A:C03	M00004218C:G10	M00004508B:G02	M00021654C:A02
M00001456C:F02	M00004252D:H08	M00001432B:H08	M00021660C:G04
M00001487D:G03	M00004253B:A10	M00001432C:G01	M00021665A:D04
M00001539B:B01	M00004253B:F06	M00003992D:G01	M00021670B:G11
M00001565A:A02	M00004253C:E10	M00005326B:F03	M00021678A:B08
M00001572C:E07	M00004260A:B07	M00005332A:H10	M00021680B:C01
M00001582D:B10	M00004260C:A12	M00005342A:C04	M00021681C:B10
M00001584C:A03	M00004260C:E10	M00005342A:D04	M00021690D:E05
M00001586A:F09	M00001339B:A03	M00005349B:G01	M00021692A:E03
M00001588D:H08	M00001342C:A04	M00005352B:D02	M00021692C:E06
M00001610B:A01	M00001344D:G11	M00005354C:E02	M00021694B:A07
M00001618B:F02	M00001345A:A12	M00005356A:D09	M00021698B:B12
M00001618C:E06	M00001347A:G06	M00005359D:G07	M00021828A:C08
M00001621C:A04	M00001347B:H01	M00005378A:A08	M00021841C:D07
M00001626B:H05	M00001353B:D11	M00005383D:D06	M00021859A:D04
M00001641B:G05	M00001355B:A01	M00005383D:E07	M00021861C:A02
M00001648C:F06	M00001358D:D09	M00005385C:G05	M00021862A:A04
M00001649D:H05	M00001359A:B07	M00005388D:F09	M00021862D:F01
M00001656D:F11	M00001362A:C10	M00005390B:G10	M00021886D:E04
M00001660A:F10	M00001362B:A09	M00005397C:B03	M00021897B:A06
M00001669A:H11	M00001365D:D12	M00005399A:D01	M00021905A:G05
M00003741A:E01	M00001365D:H09	M00005409D:C02	M00021905B:A01
M00003745C:E03	M00001370A:G09	M00005415C:G08	M00021906C:G11
M00003746A:E01	M00001370B:B12	M00005417A:E10	M00021910A:C10
M00003748B:B06	M00001374D:D09	M00005442D:C05	M00021927A:C11
M00003749B:C08	M00001376B:C11	M00005446A:G01	M00021927B:F01
M00003749D:G07	M00001377A:D03	M00005446C:D12	M00021932C:C05
M00003752A:B06	M00001377A:E01	M00005454C:H12	M00021932C:G10
M00003752D:D09	M00001377C:B08	M00005455A:D01	M00021947A:C01
M00003753C:B01	M00001387A:A04	M00005455A:G03	M00021952B:F11
M00003754C:F01	M00001387D:C07	M00005462C:B02	M00021954A:A03
M00003756C:C08	M00001389B:B06	M00005469D:C11	M00021964A:C04
M00003759A:E10	M00001390A:H01	M00005480C:B12	M00021967D:E08
M00003762A:D11	M00001399C:E10	M00005483D:A12	M00021977D:E02
M00003763B:D03	M00001401D:D04	M00005484A:D09	M00021978A:F08
M00003763D:F06	M00001402D:C07	M00005491B:C03	M00021982C:F08
M00003765D:E02	M00001402D:H03	M00005493B:C08	M00021983B:B03
M00003766B:G04	M00001403B:A01	M00005494D:F11	M00021983D:B10
M00003767C:F04	M00001405D:F05	M00005496C:A01	M00022005C:G03
M00003769B:A04	M00001406C:A11	M00005496D:A10	M00022032A:E07
M00003769D:G12	M00001406D:H01	M00005497B:H07	M00022049A:A02
M00003770D:C07	M00001407B:A08	M00005497C:C07	M00022049A:D06

ES47	ES48	ES49	ES50
M00003771A:G09	M00001407D:H11	M00005497C:C12	M00022054D:C05
M00003771D:A10	M00001411A:D01	M00005497C:E03	M00022064C:H07
M00003773A:C09	M00001411C:G02	M00005498B:F08	M00022067D:C05
M00003773B:E09	M00001412A:A11	M00005498C:G05	M00022068B:H11
M00003773B:G08	M00001415D:E12	M00005508B:B04	M00022068D:D12
M00003773C:G06	M00001417C:E02	M00005524C:B01	M00022069D:G02
M00003773D:C02	M00001421A:H07	M00005528D:A10	M00022071B:D05
M00003789C:E03	M00001422D:D02	M00005530B:D03	M00022071C:D09
M00003790B:F12	M00001423C:D06	M00005534B:H10	M00022075D:F05
M00003793C:D11	M00001424A:H09	M00005548B:E03	M00022081C:G11
M00003796B:C07	M00001425C:E10	M00005550B:D09	M00022084B:F04
M00003797D:H06	M00001426A:F09	M00005565C:A08	M00022085C:C04
M00003801D:F05	M00001426D:D09	M00005589C:B03	M00022090A:G08
M00003805A:G05	M00001431A:C10	M00005616B:D05	M00022093A:A05
M00003808C:D09	M00001431A:E05	M00005620C:C05	M00022093D:B10
M00003809A:A12	M00001432A:F12	M00005621A:G10	M00022094B:G10
M00003809A:H12	M00001432B:H08	M00005621D:F01	M00022106C:F04
M00003813D:A06	M00001432C:G01	M00005631A:A11	M00022110A:E04
M00003818A:F09	M00001433A:C07	M00005632C:D06	M00022114C:B02
M00003818B:A01	M00001434A:A01	M00005637B:D12	M00022117C:G07
M00003819D:G09	M00001435A:F03	M00005642B:C03	M00022128A:D04
M00003821C:E04	M00001435A:G01	M00005647D:D09	M00022139A:C01
M00003822A:G05	M00001435B:G10	M00005655B:C02	M00022149B:D05
M00003825C:B02	M00001435C:G08	M00005703A:C08	M00022150A:H06
M00003825C:B12	M00001435D:A06	M00005704A:B11	M00022153D:D11
M00003833B:A11	M00001436D:C10	M00005708D:B03	M00022157A:F12
M00003834A:A03	M00001437B:B05	M00005710A:C08	M00022157B:A10
M00003835D:H05	M00001438C:H05	M00005720A:D03	M00022169D:C02
M00003839D:G06	M00001439B:F10	M00005722D:G03	M00022170D:H09
M00003841A:E09	M00001439C:A01	M00005743B:F02	M00022175A:A11
M00003841B:D05	M00001439C:G06	M00005763B:H09	M00022176A:E08
M00003843A:B01	M00001442A:D08	M00005765C:C04	M00022178D:H01
M00003844C:D04	M00001443D:A01	M00005810C:D04	M00022183A:G03
M00003844C:H05	M00001444A:A09	M00005813D:F06	M00022189A:A01
M00003846B:H02	M00001446D:B10	M00005818C:E08	M00022198A:C12
M00003850B:D11	M00001452D:E05	M00005818C:G01	M00022199C:F03
M00003852D:D03	M00001453D:F09	M00006576D:F11	M00022202C:F11
M00003859C:B09	M00001463C:A01	M00006577B:H12	M00022206B:G06
M00003868D:F02	M00001466C:F02	M00006587A:H08	M00022212C:C02
M00003868D:F07	M00001471C:G03	M00006594A:E08	M00022216D:C01
M00003871A:E09	M00001488B:G12	M00006596D:H04	M00022218C:B06
M00003884D:A12	M00001489B:F08	M00006601C:A07	M00022218D:B12
M00003887B:C03	M00001489D:C08	M00006601C:E06	M00022220C:F08
M00003888B:A10	M00001490B:G04	M00006609A:G10	M00022221D:E08

ES47	ES48	ES49	ES50
M00003888C:E01	M00001491C:C01	M00006633C:E11	M00022226C:B06
M00003890B:H07	M00001496A:B03	M00006633D:A06	M00022226D:A07
M00003890D:C03	M00001496D:D02	M00006634B:C02	M00022231A:F12
M00003892D:D04	M00001500A:D09	M00006636A:B08	M00022231C:A04
M00003893C:D12	M00001504D:D09	M00006644A:B11	M00022236D:A03
M00003895D:A03	M00001505A:E09	M00006644D:C02	M00022239A:A10
M00003896B:F08	M00001506A:F01	M00006686A:G12	M00022239B:B07
M00003896D:B01	M00001517D:C03	M00006692B:E04	M00022239D:A07
M00003903C:H03	M00001518D:A10	M00006728D:G10	M00022252C:E06
M00003905C:B01	M00001536B:B11	M00006733D:G12	M00022253B:E06
M00003905C:E10	M00001537B:C12	M00006734A:H12	M00022254C:D08
M00003906C:H12	M00001542C:D10	M00006735A:H02	M00022255A:C08
M00003909D:G01	M00001542C:F06	M00006764B:D05	M00022255D:E03
M00003911C:G05	M00001543A:E04	M00006765B:H06	M00022258C:F06
M00003912B:G11	M00001546B:H01	M00006785B:F09	M00022259B:G02
M00003912C:C11	M00001551D:C12	M00006791B:B08	M00022278C:E03
M00003914C:E03	M00001552B:D01	M00006796A:C03	M00022278D:F10
M00003915A:D09	M00001556D:A11	M00006800C:G08	M00022288C:D04
M00003915C:G01	M00001557C:B08	M00006814A:F07	M00022289A:D05
M00003920B:A10	M00001558B:A12	M00006819A:D10	M00022289D:B06
M00003921D:C06	M00001560C:C01	M00006820A:G05	M00022294A:D11
M00003923A:H07	M00001561B:C10	M00006821C:C10	M00022296B:C11
M00003936C:F10	M00001597C:B03	M00006822A:D07	M00022305A:H11
M00003948B:B03	M00001623B:B01	M00006823D:D12	M00022364C:G12
M00003949B:A08	M00001623D:A09	M00006826B:H03	M00022366B:E09
M00003949B:D05	M00001644D:F09	M00006828D:C12	M00022372B:D03
M00003961B:A12	M00003784C:B09	M00006832D:F11	M00022381A:F05
M00003961C:G02	M00003785D:E01	M00006846A:B01	M00022382D:H11
M00003962B:B09	M00003862C:H10	M00006850C:D09	M00022386A:A07
M00003963B:D12	M00003864B:A04	M00006850C:G07	M00022386B:D11
M00003973A:C05	M00003864D:G05	M00006851C:H09	M00022386C:A04
M00003973B:H06	M00003992C:G01	M00006863B:E06	M00022386C:D07
M00003976D:D12	M00003992D:G01	M00006866C:F03	M00022399C:A10
M00003977C:A08	M00003994C:C11	M00006867C:E07	M00022407C:H11
M00003980B:F12	M00003996D:C04	M00006868D:E02	M00022411D:G09
M00003980C:G10	M00003997D:D07	M00006870C:H06	M00022412A:C08
M00003981C:E04	M00003998A:D03	M00006873B:G11	M00022444A:A11
M00003983C:E07	M00003998C:H10	M00006875A:A02	M00022449C:B01
M00003987D:F06	M00003999C:C12	M00006877B:E05	M00022452C:B03
M00004027A:B10	M00004046A:F04	M00006879A:H11	M00022457C:B01
M00004027C:H01	M00004051C:D02	M00006882A:D01	M00022495C:G05
M00004028C:B04	M00004052C:A08	M00006901D:A11	M00022504B:E03
M00004030B:B02	M00004052C:B05	M00006907C:D03	M00022505D:A12
M00004030B:C05	M00004054B:G02	M00006907D:C07	M00022509D:F06

ES47	ES48	ES49	ES50
M00004035D:E04	M00004054D:A03	M00006912B:E01	M00022527A:E05
M00004036B:F09	M00004055B:F06	M00006921B:E01	M00022527D:B03
M00004036C:D01	M00004058B:C11	M00006960D:E06	M00022531B:D07
M00004037A:A07	M00004058C:E08	M00006963A:H11	M00022535D:B11
M00004037B:B05	M00004059A:G09	M00006966C:B07	M00022535D:C04
M00004038C:C05	M00004060C:A02	M00006972A:F10	M00022536B:B04
M00004038C:D12	M00004060D:A07	M00006973C:E11	M00022551A:G03
M00004039D:D03	M00004063C:B11	M00006973D:E11	M00022556B:C04
M00004040B:B09	M00004143A:G12	M00006974B:F06	M00022556B:G02
M00004040C:G12	M00004143A:H07	M00006976C:E09	M00022562C:H10
M00004040D:B05	M00004145C:A03	M00007014C:B07	M00022578B:G05
M00004041B:F01	M00004146D:A07	M00007015C:G05	M00022578D:F03
M00004041D:E06	M00004147A:G03	M00007016C:E06	M00022583B:E05
M00004043D:C10	M00004149B:H12	M00007041B:G01	M00022587C:G04
M00004069D:G02	M00004153D:E06	M00007042A:E07	M00022594B:H12
M00004071A:H03	M00004154D:F11	M00007043A:B05	M00022598A:F11
M00004073D:B11	M00004159D:C04	M00007046A:D02	M00022599D:E07
M00004076D:B03	M00004166B:E10	M00007047B:D01	M00022604B:C11
M00004081C:A01	M00004166C:A03	M00007051D:D09	M00022607B:A04
M00004084C:G04	M00004166D:G07	M00007053B:H03	M00022613D:C04
M00004085B:G06	M00004196C:G05	M00007058A:C02	M00022651D:C06
M00004087C:F05	M00004234B:E03	M00007062A:D03	M00022666C:H11
M00004091A:E01	M00004234B:G06	M00007099A:F09	M00022681C:H02
M00004091B:C12	M00004236D:E07	M00007100C:D01	M00022682A:F12
M00004091B:G04	M00004236D:F04	M00007112B:C06	M00022698C:E06
M00004091C:F04	M00004240D:A07	M00007105D:C07	M00022701B:B12
M00004091D:D09	M00004242C:C02	M00007121A:A05	M00022708A:C08
M00004092A:C03	M00004244B:A02	M00007122A:G11	M00022708D:G10
M00004092A:D04	M00004245A:G09	M00007122B:A11	M00022725C:E09
M00004093D:D09	M00004245C:A03	M00007127B:A04	M00022726A:A06
M00004101D:A03	M00004247A:E01	M00007129A:G10	M00022730A:E04
M00004103B:C07	M00004247B:C11	M00007130B:B03	M00022737A:C08
M00004107C:A01	M00004248A:G08	M00007132D:G08	M00022763A:E10
M00004114C:F02	M00004263D:F06	M00007134C:F07	M00022824C:H11
M00004115A:F01	M00004272D:D02	M00007137D:C10	M00022835C:E06
M00004117B:F01	M00004273D:E11	M00007140D:C12	M00022854D:H07
M00004120A:C02	M00004277D:C08	M00007150A:C09	M00022856A:D02
M00004126B:G02	M00004281B:B05	M00007150A:H06	M00022856B:F04
M00004129A:H08	M00004283C:D03	M00007154A:E04	M00022856C:B11
M00004130C:A09	M00004285B:E01	M00007163A:F11	M00022893C:H11
M00004133D:A01	M00004297D:E08	M00007163B:A12	M00022897A:F04
M00004178B:F06	M00004298B:D04	M00007166B:E06	M00022900D:E08
M00004180B:F04	M00004308A:E06	M00007170D:A10	M00022900D:G03
M00004184B:F11	M00004324B:D09	M00007172A:A05	

ES47	ES48	ES49	ES50
M00004191B:G01	M00004328A:H06	M00007172D:C08	
M00004193A:C07	M00004329C:F11	M00007188A:D03	
M00004193C:H01	M00004331D:H08	M00007189D:A09	
M00004199D:C02	M00004332C:E09	M00007193D:A04	
M00004200A:A09	M00004337D:G08	M00007195B:B02	
M00004200A:G06	M00004345A:H06	M00007198C:A10	
M00004200D:A07	M00004383A:F02	M00007199D:B07	
M00004201D:C11	M00004385C:B11	M00007204C:F09	
M00004201D:E12	M00004388C:D05	M00007929B:H10	
M00004202B:A02	M00004406A:H03	M00007961A:B01	
M00004204A:D04	M00004408D:A10	M00007964B:D10	
M00004204A:D10	M00004410A:E03	M00007971A:B04	
M00004204B:A04	M00004412B:E03	M00007977C:E08	
M00004210A:B09	M00004421A:G04	M00007995D:E06	
M00004216D:E10	M00004447D:D10	M00008074D:C01	
M00004217A:A11	M00004460B:H09	M00008094A:E10	
	M00004465C:B10	M00021611D:D05	
	M00004465C:B12	M00021611D:H03	
	M00004467A:F09	M00021614B:G12	
	M00004467D:F09	M00021618D:D07	
	M00004491D:D07	M00021624A:D07	
	M00004497C:E09	M00021624B:A03	
	M00004501A:G06	M00021625A:C07	
	M00004506C:H10	M00021629D:D05	

Table 24 Library Deposits			
ES51	ES52	ES53	ES54
M00001448A:D05	M00001439B:E02	M00006621A:G10	M00021640A:G03
M00001458B:F06	M00001443A:E02	M00006626A:G11	M00021657B:C08
M00001530A:D11	M00001443D:C03	M00006629D:D04	M00021690B:B06
M00001563C:D06	M00001444A:G12	M00006630B:H06	M00021690C:B07
M00001564C:D04	M00001445B:E03	M00006631D:B02	M00022071C:C09
M00001569B:F04	M00001451B:H11	M00006631D:C04	M00022081C:B11
M00001575A:H02	M00001452B:F09	M00006631D:E09	M00022085C:A07
M00001589C:D12	M00001488B:H02	M00006635C:B10	M00022091B:B07
M00001589D:G10	M00001491D:E07	M00006636A:E06	M00022122D:D06
M00001590D:A07	M00001496C:H10	M00006636D:A05	M00022150D:D11
M00001598C:D10	M00001499A:D01	M00006636D:F11	M00022154A:C01
M00001599A:H09	M00001499A:D05	M00006640A:B01	M00022170D:H07
M00001609A:B12	M00001499B:H05	M00006640B:F05	M00022365A:A01
M00001614C:G04	M00001500B:H07	M00006640D:H08	M00022389B:H04
M00001626C:C10	M00001504C:H11	M00006641A:B03	M00022439A:E07
M00001634C:E12	M00001506D:A11	M00006643A:E10	M00022449D:F06
M00001639A:A04	M00001543A:D03	M00006644C:E09	M00022458B:E06
M00001640A:F02	M00001543A:F01	M00006648C:E04	M00022474A:H09
M00001640A:F04	M00001548C:A09	M00006650A:B11	M00022480B:E07
M00001647C:C07	M00001555D:F11	M00006656C:C10	M00022489C:A08
M00001649B:E08	M00001557B:D10	M00006664B:B04	M00022490C:A08
M00001654D:F06	M00001597A:C07	M00006664D:H09	M00022490C:C01
M00001658B:C07	M00001604B:D09	M00006665A:F07	M00022493C:B07
M00001659D:G08	M00001605D:G01	M00006665B:D10	M00022493C:C06
M00001663C:C03	M00001621D:B09	M00006674B:F04	M00022498C:C08
M00001675C:B03	M00001622C:F06	M00006676B:F11	M00022514A:D04
M00001677A:A06	M00001624A:A09	M00006676D:D11	M00022515D:C04
M00001677A:A12	M00001640D:C10	M00006679C:D07	M00022549B:G07
M00001678D:A12	M00001645B:C09	M00006681C:G04	M00022557B:A08
M00001679C:F03	M00003782D:F04	M00006695B:F08	M00022565C:H02
M00001681A:H09	M00003783C:A06	M00006698B:E06	M00022578D:A08
M00001687C:A06	M00003786D:C06	M00006699B:C07	M00022597B:F11
M00001693D:F07	M00003787B:D07	M00006705B:D02	M00022599A:C03
M00003746B:E12	M00003787D:A06	M00006712B:H10	M00022661B:E11
M00003766A:G09	M00003864C:D09	M00006717A:D04	M00022661D:H01
M00003795A:B01	M00003993A:E12	M00006721C:G07	M00022666B:E12
M00003796C:H03	M00003997B:H04	M00006725A:A03	M00022674D:G04
M00003797D:E10	M00003997D:G11	M00006725A:B03	M00022718D:G05
M00003799B:D02	M00004047B:G09	M00006727B:G08	M00022725C:B03
M00003809B:D08	M00004048D:A07	M00006728C:B06	M00022727B:C05
M00003811B:E07	M00004049D:G04	M00006737C:A08	M00022728A:A09
M00003812B:F08	M00004050A:F02	M00006738A:E05	M00022730D:E10
M00003812D:E08	M00004051C:D10	M00006739B:B10	M00022735B:B01

ES51	ES52	ES53	ES54
M00003815C:A06	M00004058B:F12	M00006739B:B12	M00022745A:B04
M00003815D:D01	M00004060C:A11	M00006739C:H07	M00022856B:D07
M00003816C:F10	M00004064A:B12	M00006743B:G12	M00022901D:C09
M00003818C:E09	M00004066A:E12	M00006744C:C06	M00022902D:D03
M00003819A:B09	M00004067C:D08	M00006745D:E08	M00022953B:C07
M00003819C:E04	M00004134A:F08	M00006751A:F03	M00022960D:E08
M00003820A:H04	M00004134A:H04	M00006758D:C01	M00022963A:D11
M00003820D:E02	M00004134C:B11	M00006760D:G12	M00022968A:F02
M00003824B:D06	M00004140B:B01	M00006763B:B11	M00022980B:E11
M00003825B:D12	M00004143C:F08	M00006769D:A04	M00022980C:A09
M00003826B:D01	M00004144D:B06	M00006770B:C05	M00022993A:F02
M00003829A:E02	M00004152C:E01	M00006771A:E06	M00023003C:A03
M00003832B:G03	M00004159D:H07	M00006771A:H07	M00023011A:A06
M00003833D:D06	M00004160A:A01	M00006771B:A09	M00023021A:H08
M00003835A:E03	M00004161B:A12	M00006771B:F03	M00023023A:B12
M00003837C:F05	M00004163A:D11	M00006774D:C01	M00023028A:A02
M00003839C:B05	M00004164D:D02	M00006777B:D10	M00023033A:E10
M00003845A:A05	M00004165C:E09	M00006779B:A11	M00023034C:E05
M00003846D:C12	M00004166A:F02	M00006779D:D03	M00023036D:C04
M00003857C:A03	M00004167C:F10	M00006780A:H12	M00023094A:C04
M00003858A:D01	M00004169A:B11	M00006789C:F04	M00023103A:E11
M00003860B:A07	M00004200B:B04	M00006790D:A05	M00006754B:D05
M00003868B:C07	M00004222A:H10	M00006796A:H10	
M00003881D:D09	M00004223D:D07	M00006797B:D12	
M00003883D:C03	M00004225D:F01	M00006801A:G05	
M00003884B:E06	M00004228C:D11	M00006805A:E11	
M00003886C:D10	M00004229C:G11	M00006805A:H09	
M00003903C:A12	M00004239C:A07	M00006805B:C04	
M00003912C:H01	M00004239C:C09	M00006807D:D08	
M00003915B:G07	M00004240D:E06	M00006813A:C04	
M00003920D:D09	M00004241B:B01	M00006822D:D05	
M00003926B:E03	M00004243C:E10	M00006825C:D06	
M00003934D:F01	M00004266A:F10	M00006831B:B04	
M00003958C:C10	M00004266B:H06	M00006832A:F05	
M00003965A:F07	M00004268C:F08	M00006832D:F10	
M00003972C:F02	M00004268D:G07	M00006833B:E11	
M00003974B:A04	M00004269A:B11	M00006872B:G01	
M00003974C:A05	M00004269D:E08	M00006875D:D10	
M00003975B:H09	M00004276C:E12	M00006879D:A10	
M00003976C:C05	M00004277B:C06	M00006882D:F03	
M00003980C:A11	M00004277C:H11	M00006884D:D06	
M00003987A:C07	M00004279D:E02	M00006908C:A05	
M00003988B:C10	M00004281B:B03	M00006921B:C02	
M00003988C:A06	M00004284B:F07	M00006921B:E03	

ES51	ES52	ES53	ES54
M00003989C:F01	M00004287B:B12	M00006949B:F03	
M00004028C:D01	M00004287C:B06	M00006960A:G11	
M00004029A:E01	M00004297D:B08	M00006966D:G03	
M00004030A:E09	M00004332B:D02	M00006974B:D06	
M00004031A:G05	M00004332B:E11	M00007013B:F02	
M00004032D:D03	M00004346B:D06	M00007014D:C05	
M00004033C:D10	M00004389C:E01	M00007014D:D04	
M00004034A:E08	M00004403A:B05	M00007030A:G01	
M00004035A:A10	M00004407D:B09	M00007030C:F08	
M00004035B:H11	M00004419D:G01	M00007053B:C07	
M00004035D:C05	M00004449D:H01	M00007065B:B12	
M00004037B:A09	M00004463C:F11	M00007065D:C01	
M00004037C:C05	M00004466A:E09	M00007075C:D08	
M00004037D:B05	M00004469A:C12	M00007085A:B07	
M00004044A:F08	M00004470C:A02	M00007118C:G02	
M00004068A:F02	M00004498B:E01	M00007119B:H10	
M00004068B:D04	M00004509A:H02	M00004824C:G09	
M00004068D:B01	M00004605C:A09	M00004826A:E09	
M00004069B:B01	M00004609C:C11	M00004839C:B01	
M00004073D:E01	M00001378B:F06	M00004840C:F02	
M00004075A:G10	M00005294C:G08	M00004840C:H05	
M00004075C:C09	M00005294D:H02	M00004845D:E11	
M00004076A:E02	M00005330C:F09	M00004846A:D02	
M00004077D:D10	M00005333C:C08	M00004846D:H09	
M00004078A:F03	M00005342B:G10	M00004854A:C09	
M00004078C:A08	M00005352C:G09	M00004858D:E06	
M00004084A:D11	M00005352D:E06	M00004999A:F01	
M00004086A:A03	M00005353B:B09	M00004999B:D12	
M00004086D:A07	M00005359B:G01	M00004999D:E01	
M00004088A:F12	M00005359D:H08	M00005004B:C11	
M00004089A:F02	M00005377A:A04	M00005005C:E06	
M00004089A:G03	M00005377A:D05	M00005009B:A02	
M00004093A:F03	M00005385C:D08	M00005015D:D11	
M00004097C:A03	M00005388A:F07	M00005457D:C08	
M00004102B:B04	M00005388D:B11	M00005519B:H04	
M00004102C:F07	M00005392C:C04	M00005519C:F08	
M00004103B:C09	M00005393A:E11	M00005531B:A03	
M00004103C:F11	M00005394A:G07	M00005535B:F06	
M00004104A:H09	M00005396B:C04	M00005587B:H02	
M00004104D:C09	M00005399B:F02	M00005685A:A04	
M00004108A:D04	M00005400A:D02	M00005706D:A09	
M00004109B:A01	M00005403D:E11	M00005711A:H01	
M00004126D:B11	M00005406D:B08	M00005798B:C11	
M00004133C:B02	M00005411D:E05	M00005799C:C12	

ES51	ES52	ES53	ES54
M00004182D:H03	M00005415D:G02	M00005805D:E06	
M00004183A:D06	M00005417C:E10	M00005827B:H08	
M00004186B:E05	M00005419A:D05	M00005828D:C09	
M00004187C:H09	M00005419C:D09	M00005837A:D12	
M00004188A:E05	M00005443D:C12	M00006751B:B11	
M00004188A:E10	M00005447B:D02	M00006754B:D05	
M00004190A:C12	M00005448D:E08	M00006756B:B08	
M00004190C:G07	M00005450A:A02	M00006757D:E04	
M00004190D:A10	M00005450A:B10	M00006758A:B12	
M00004190D:G12	M00005450D:D02	M00006758D:C04	
M00004198D:H04	M00005451A:E03	M00006834A:C08	
M00004202B:F04	M00005456B:B07	M00006835B:F04	
M00004202B:G09	M00005456B:E03	M00006837C:G06	
M00004206C:G11	M00005460A:B10	M00006841D:A08	
M00004213A:H12	M00005465C:H02	M00006855C:H02	
M00004214A:D03	M00005466A:F12	M00006855D:H02	
M00004218D:F12	M00005468B:D04	M00006859A:F06	
M00004249C:E12	M00005470B:E01	M00006860B:H01	
M00004249D:G02	M00005473D:E10	M00006886A:D06	
M00004252D:A07	M00005483A:F05	M00006893C:B02	
M00004253D:F09	M00005483D:A02	M00006893C:F02	
M00004257C:A08	M00005487A:H01	M00006895D:E10	
M00004262C:C01	M00005489A:F06	M00006917C:E07	
M00001339B:E05	M00005493B:A12	M00006919B:C03	
M00001341A:A11	M00005493B:E01	M00006923C:B01	
M00001346A:B09	M00005497C:C10	M00006926A:H11	
M00001346B:A07	M00005505A:C08	M00006934A:G02	
M00001346B:G03	M00005508A:H01	M00006936B:E09	
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M00001352C:E01	M00005539D:G07	M00006939B:E05	
M00001362B:H09	M00005571A:E11	M00006953D:H11	
M00001370A:B01	M00005619C:H10	M00006980A:F02	
M00001370B:D04	M00005625D:C03	M00006986C:G11	
M00001374C:C09	M00005626A:B11	M00006989B:C11	
M00001376A:H02	M00005635B:A06	M00006990B:H09	
M00001378B:F06	M00005635C:F11	M00006991A:E07	
M00001380C:D10	M00005636C:D11	M00006991D:G07	
M00001383C:C07	M00005637D:C05	M00006995C:A02	
M00001384A:C09	M00005641B:E02	M00006997B:E06	
M00001391D:A07	M00005645D:F08	M00006997D:B03	
M00001391D:A09	M00005646C:B09	M00007006D:D04	
M00001396C:G02	M00005646D:B03	M00007010B:C11	

ES51	ES52	ES53	ES54
M00001397A:F10	M00005655D:C04	M00007010B:H03	
M00001397B:E02	M00005703C:B01	M00007012B:D07	
M00001397B:H11	M00005720B:D09	M00007031C:D01	
M00001399D:F01	M00005722A:E09	M00007032A:F11	
M00001400D:B08	M00005762D:A01	M00007033A:H05	
M00001402C:E09	M00005783A:C05	M00007033D:F04	
M00001406A:G12	M00005812C:F10	M00007036A:D02	
M00001406D:B06	M00006581C:D02	M00007037B:D04	
M00001408A:B02	M00006581D:H08	M00007084B:A05	
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M00001411C:F02	M00006582D:E05	M00007099C:F09	
M00001411D:C01	M00006592A:D03	M00007101A:A11	
M00001412D:C03	M00006594D:F09	M00007107A:D11	
M00001417B:C07	M00006596A:F07	M00007121C:H01	
M00001417C:A09	M00006601D:F04	M00007129A:E04	
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M00001433A:F04	M00006616C:H09	M00007160C:B08	
M00001434C:D05	M00006616D:C08	M00007161A:H03	
M00001435C:H05	M00006617B:D09	M00007192C:H08	
M00001438A:H10	M00006619B:C11	M00007200B:C02	
M00001438B:H06		M00021619B:G10	

We Claim:

1. A library of polynucleotides, the library comprising the sequence information of at least one of SEQ ID NOS:1-2702.

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2. The library of claim 1, wherein the library is provided on a nucleic acid array.

3. The library of claim 1, wherein the library is provided in a computer-readable format.

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4. The library of claim 1, wherein the library comprises a polynucleotide corresponding to a gene differentially expressed in a cancer cell of high metastatic potential relative to a control cell, wherein the control cell is a normal cell or a cell of low metastatic potential, and wherein the sequence is selected from the group consisting of SEQ ID NOS:1213, 1538, 1466, 1356, 1383,

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1158, 441, 1338, 1426, 1547, 1313, 841, 1534, 1503, 829, 1408, 1447, 1389, 356, 1492, 1543, 799, 1437, 1251, 972, 1482, 1299, 109, 1558, 1355, 1548, 250, 919, 358, 1525, 1157, 150, 651, 1298, 57, 625, 1322, 36, 621, 215, 561, 247, 199, 998, 502, 1382, 1181, 1309, 1157, 1260, 1185, 1525, 248, 87, 698, 57, 924, 1249.

20

5. The library of claim 1, wherein the library comprises a polynucleotide corresponding to a gene differentially expressed in a cancer cell of low metastatic potential relative to a control cell, wherein the control cell is a normal cell or a cell of high metastatic potential, and wherein the sequence is selected from the group consisting of SEQ ID NOS:248, 726, 14, 699, 763, 20, 79, 715, 991, 1199, 707, 1128, 891, 1146, 731, 1518, 340, 949, 1247, 1185, 924, 822, 728, 341, 1527, 698, 949, 744, 973, 1268, 1114, 1032, 109, 973, 91, 982, 1267, 93, 1556, 1251, 1206, 812, 1254, 1220, 766, 1156, 1007, 981, 762, 876, 1234, 1183, 1044, 785, 1069, 770, 778, 792, 822, 1258, 1224, 984, 841, 339, 1213, 1201, 1192.

25

6. An isolated polynucleotide comprising a nucleotide sequence having at least 90% sequence identity to an identifying sequence of SEQ ID NOS:1-2707 or a degenerate variant or fragment thereof.

30

7. A recombinant host cell containing the polynucleotide of claim 6.

8. An isolated polypeptide encoded by the polynucleotide of claim 6.

35

9. An antibody that specifically binds a polypeptide of claim 8.

10. A vector comprising the polynucleotide of claim 6.

11. A polynucleotide comprising the nucleotide sequence of an insert contained in a clone deposited as ATCC accession number xx. xx. xx, xx, xx, xx, xx, or xx.

5

12. A method of detecting differentially expressed genes correlated with a cancerous state of a mammalian cell, the method comprising the step of:

detecting at least one differentially expressed gene product in a test sample derived from a cell suspected of being cancerous, where the gene product is encoded by a gene corresponding to a sequence of at least one of SEQ ID NOS: 1213, 1538, 1466, 1356, 1383, 1158, 441, 1338, 1426, 1547, 1313, 841, 1534, 1503, 829, 1408, 1447, 1389, 356, 1492, 1543, 799, 1437, 1251, 972, 1482, 1299, 109, 1558, 1355, 1548, 250, 919, 358, 1525, 1157, 150, 651, 1298, 57, 625, 1322, 36, 621, 215, 561, 247, 199, 998, 502, 1382, 1181, 1309, 1157, 1260, 1185, 1525, 248, 87, 698, 57, 924, 1249, 248, 726, 14, 699, 763, 20, 79, 715, 991, 1199, 707, 1128, 891, 1146, 731, 1518, 340, 949, 1247, 1185, 924, 822, 728, 341, 1527, 698, 949, 744, 973, 1268, 1114, 1032, 109, 973, 91, 982, 1267, 93, 1556, 1251, 1206, 812, 1254, 1220, 766, 1156, 1007, 981, 762, 876, 1234, 1183, 1044, 785, 1069, 770, 778, 792, 822, 1258, 1224, 984, 841, 339, 1213, 1201, 1192

wherein detection of the differentially expressed gene product is correlated with a cancerous state of the cell from which the test sample was derived.

SEQUENCE LISTING

<110> Williams, Lewis T.
Escobedo, Jaime
Innis, Michael A.
Garcia, Pablo Dominiguez
Sudduth-Klinger, Julie
Reinhard, Christoph
Giese, Klaus
Randazzo, Filippo
Kennedy, Giulia C.
Pot, David
Kassam, Altaf
Lamson, George
Drmanac, Radoje
Crkvenjakov, Radomir
Dickson, Mark
Drmanac, Snezana
Labat, Ivan
Leshkowitz, Dena
Kita, David
Garcia, Veronica
Jones, Lee William
Stache-Crain, Birgit

<120> NOVEL HUMAN GENES AND GENE EXPRESSION
PRODUCTS V

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<151> 1998-05-14

<150> 60/085,537

<151> 1998-05-15

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cattgtgtga	ttagattgca	ttttctttat	ccgtctgttg	atggacgttt	ggggttgtn	120
cacncttntg	ccngagntcg	aaacnnnctn	anananctat	gctgtggncn	cntgccnatn	180
tctncanctc	aanngnnnca	gnctgtacnc	ntntntgaan	anncngncan	ncancnacnn	240
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gcctcccggg	ttcacgccat	tctcctgctt	cagcctcctg	agtagctggg	actacaggcc	120
cctgccnate	taattctttg	gntaaanntt	ntcnntcttg	natctccatn	gccatgatnt	180
tataaatttg	ntttcnnant	tattnccttn	tttttcnngg	anantanngg	nttngctttt	240
tanntgattc	ngntnnttca	nnanag				266

<210> 3

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<212> DNA

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taagggtctaa	ttttttaact	tttattaatg	aatacctttt	ttaaaatagg	tttttggtgc	120
attatgggtta	tttgccctagt	ttgatactca	aaacatgact	cttagtctaa	cttanngntg	180
tttaaaccctg	agtanncnc	agaccctttt	tnanggnnaa	cnnantttctc	ntggatccca	240
gctgttgctn	ttttgtnggn	cncntntnt	natngnctng	tntantncaa	cntctgctcg	300

<210> 4

<211> 288

<212> DNA

<213> Homo sapiens

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<223> n = A,T,C or G

<400> 4

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gcttgatttg tggcttgaag tttgaaagga agtgccctgtt tgttcaggga acaccaattg      60
gactaacagc tgacctctgt attaaggcca tcttttagctt gtcttgcata tactttcctt      120
gttcactaat cccttctccc caccctgctt ccttttagacc catgttaatc tattacctnn      180
gagcngctct agattctaga gttgncantg actaatntcn cngannctct nattctgttg      240
agcttaatng nctctcnaat ttntactga tgttcenntn ttagactt      288

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<210> 5

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<213> Homo sapiens

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<400> 5

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atctccttct ccgggaattc aagtaaggca tgtctacacc ccctctacga caaagcattt      60
ctcaccata agacagtcaa cgacttnann cnanganac agagggnatg nggtcggcnc      120
ncagagtga tgttggcgcg tgcgtgntag natctcgnag gtgttgcncc cangagttan      180
ccagagtcaa tgccnnacac atagtatgag aagagcactt tntaagagnt naattnattt      240
gagnnnangt attttngnnt ntgtanttgg cncgcttttt tnaangctat aa      292

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<210> 6

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aaaaaaaaan nncnnngna aanttttng nannggataa nttnggttnc ngggtnggaa      180
atnantnnta ncnggnaagg gnaaaaaaag ggnggttant tngnggtttt tnnaanaccc      240
caaatnaaaa agggngnggt ttaccnngn aaangnnaat gttcaaa      287

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<210> 7

<211> 294

<212> DNA

<213> Homo sapiens

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<400> 7

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ggcacatgac tgtagtccca gctactcagg agactgaggc aggagaatca ctcaaactg      120
ggaggtggag gttgtagtga gcngcatca ngccnttnc actncannct atgntaccnn      180
nctgaanntg tctcatnnaa ctaatncata aatnnaaacc gttnntact gtgttnncca      240

```

nactgctctc annntntctgg acntcacnnt cctctctcta acctcctcct ccca

294

<210> 8
 <211> 289
 <212> DNA
 <213> Homo sapiens
 <220>
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 <223> n = A,T,C or G

<400> 8
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 ggggnttgcc naaanccttg naacagctta cntaatatta ctntntttt atnnnnngtg 120
 ctatgnttt nanctncnt gtcaaaaangn aggcattgtt acnanantaa ntnancnttt 180
 tganancncc tatgctgttt nngngagatt ctgcttnaac cctngatacc ttctgggnnc 240
 ntnannntta tntctacttc tttttacaga cactnntgtt cacacactt 289

<210> 9
 <211> 276
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> n = A,T,C or G

<400> 9
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 ttgacctcgt gatacgcccg ccttggectc ccaaagtgtt gggattacag gtgtggggcca 120
 ccacacccag cttttttttt tttttttttt gnaaanaaag ggncnaattt tnnccaaaan 180
 ccnnggnngn aggnnnnggc ccaantnngg gntaatngaa ncntcnncnt ccagggtncn 240
 nggnttttta ngncctaacc cncngngaa ccggga 276

<210> 10
 <211> 285
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)...(285)
 <223> n = A,T,C or G

<400> 10
 gaatcacttg aacccagag gcagaggctg aagttagcca agattacgtc actgcattcc 60
 agcctgggtg acagagcgag actccatctc aaaaaaaaaa aaaaaaaaaa aannngnncc 120
 ttnaaaattn ntngggggcn tntttcnaa ngnnaaaccn tttatntncc cttngngggn 180
 ngggnnnanc cngnnntnna angganggna aaaanngnt ttttngaaaa ntttggnnan 240
 tntttntttt ttttnnanc nttntaaggc ntnggnnaaa aggtt 285

<210> 11
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<213> Homo sapiens

<220>

<221> misc_feature

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<223> n = A,T,C or G

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ctgggagtag	aggttgacgt	gagctgaaat	tgcaccactg	aactctagcc	tgggcaacag	120
agttagactt	ggtctcaaaa	aaaattaaaa	ataaaaaata	aattgggggc	tgagtgtggt	180
gntnangntn	tantntcenn	ttcttangna	ncttgnatnt	tttnaaatnt	cgnnttttng	240
tntnnntttn	tttttttnat	nnatntagnt	nttntnntcg	nttttttt		288

<210> 12

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<213> Homo sapiens

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ggagaccgcc	tgggaatact	cgaggaggcta	aggcaggaga	atcgcttgaa	cctgacgggg	60
tggagggttg	agtgagccga	gatcgcgcca	cttcaactcca	gcctggggcga	aagagcgaaa	120
ctccatctca	aaaaaaaaaa	gggaanttna	aaannaccng	caaagtntn	gttnggggan	180
ntttntgnag	ggtngngncc	nttnggncct	ttacntaacc	ccnggantnc	ntttaagggn	240
aangngggtg	aaggntgttn	aancncnggg	ngtncntgtn	taaaanangt	ttggttccc	299

<210> 13

<211> 300

<212> DNA

<213> Homo sapiens

<400> 13

ggaaagccct	ttgtcatgaa	tctgcaggat	ctgtatatgg	cagtcaccac	acaagaggtc	60
caagtgggag	agaagcatca	aggcgctgga	gacccctcata	cctcaaacag	tgcttccctg	120
caagggaatcg	atagccaatg	tgtaaaccag	ccagaacaac	tggctctctc	agccccaacc	180
ctctcagcac	ctgagaaaaga	gtccacgggt	acttcaggcc	ctctgcagag	acctcagctg	240
tcaaagggtca	agaggaagaa	gccaaggggt	ctcttcaggt	aatctgttgt	ggcctcagct	300

<210> 14

<211> 270

<212> DNA

<213> Homo sapiens

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gccttatgtc	ttggggagcct	gttttgctag	gcaaagttac	aagtgcaccta	atgggagctc	60
aaatgtgtgt	gtgtctctct	gtgtgtttgt	gtgtgtgtgt	gcactcaaga	cctctaacag	120

```

cctcgaagcc tgggggtggca tcccngcctt gccattaaca tgccctcatgc atnatcagat      180
gacaaggaca accctnatga cnaatcaaca tgaattaggg ggccctcttgn tcttgggtcca      240
aaattgtcan tcagnnatga ncatatagga                                          270

```

```

<210> 15
<211> 300
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<213> Homo sapiens

```

```

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```

```

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acgaaaancca ccattatggt ngatgacata gggagaaatt ttctaataaa cccacnaatg      180
gactaaagat taggnctttt ntnnangcnc cccttnattt nnnnnanccc nccnacnttt      240
taaatccnct nanntnccct caggngatng cccanttaga tgactttttg gatctaaatc      300

```

```

<210> 16
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 16
cttttttatag tgggtggctgg caagaaggaa gcagttcttc acgtttctcac ctaagcccag      60
agcaagggaac aggtataata agtggaaaaa cttggaataa gtataattat catccagcct      120
cccagaagaa tactcaacaa cccttggcca agcatgaacc aaggaaagag tccattaaaa      180
agaccaaaca tttgagattg tcacagcctt ctgaagttac tcattataag tcaagcaaac      240
gagaagtacg aacatctgat tcttccagcc atgtttccca gtctgaagaa caagcacaga      300

```

```

<210> 17
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<213> Homo sapiens

```

```

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<223> n = A,T,C or G

```

```

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gtttcttgta agtactctgg gagtgcataa tacattttta ataagattaa aaattatggt      60
ttattcttac tagcatcact gtcagataat tgagcgtgag agcattcagt gctgtgtgct      120
tggtacgaag nagtaacatn aatttagagt tnagtnntcc antttgnatc ntengcaann      180
gcatctntga ncnntgcgcc ngtganntnn nnttatgnna ntatctnatn tnnnnngnan      240
ngcnnaaac                                          249

```

```

<210> 18
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```

```

<400> 18

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```

ggatgctgag atgatatgcc ttttgaccag gatgtctcaa gtatccaagc ccagaaatca      60
tctcttctag gctgaatcaa gatggtttgc ataagagacc atgcagatgc acgtctctgc      120
tatcttacat taaaaatgca gaatggctca cctgcccttt gttgtcatat gttatataga      180
aaaacctatt tgcattgagaa ctgtcaccca cagttttggg tagggtcagt gtgtgccact      240
gagcaggaac gccgagggcc ataacctgtc taatgtatta aattctcagg aatcggggatt      300

```

```

<210> 19
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<212> DNA
<213> Homo sapiens

```

```

<400> 19
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tgatcacgat tggggtttct gtggagccag taataggggg tgctcgagggt gcctgtggag      120
ttagtgattg cgggtttcagg cttcggtgat ggggttctgt ggcgtccgtt gttgattgtg      180
acggatttct caggtttctg ggtgtctctg gggagcccct gggccagatt ttcctctaga      240
ctccagccca tctcttcaga gcagctctgc ttgagttcac agatgactgc caagcttcag      300

```

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aaacgagcaa aagactttct tcccaaattt gttccaggat aaaaacagac cgtgtctcag      240
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```

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<210> 21
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<213> Homo sapiens

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tttcattatg agattgtact gcaaataaaa gaaagaggag gtgggggtgt ctgggcttgg      180
ttacagctgg gtgtttatca caggcattta taagaagtta gtacactttc aggccctctg      240
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<210> 22
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aaaaaaaaan gncccnngga aanttttngn gannggntna gttnggntnc ngggtnngna      180

```

nttantnnta ncnggcaagg gcaaaaaaag ngngggttant taggnggntt tncaccnccc 240
caantgaaaa atggngnggtt ttaccccggg gaaatggana tntcacagat 290

<210> 23
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<212> DNA
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gcttttgctg tttgactgct gtctacattc gtataattct attttgtgaa ttggttagcta 120
aatcccttac taccctgaca ccgtgggtatc tactgtattt cttttcaagg tgcaatttgc 180
ttcagagttc cagtcagcta gattaagcaa gaggtccag aagaaatgtt tacttgaatt 240
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ctnccnttg ccntttntgn ccnttnnttt ctntnttng tgtntctngt gnnenttgtg 180
gngnttttnn nggcttgctt nttnttgagn tttntcttt nttntntatt cntttenenn 240
tgtntgtnt nttgntntnt tntgttttnc ta 272

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<212> DNA
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gaaactggga actaacatgt acagcgtgaa tcagcctgtg gaaactcatg tgtctggatc 120
atcaaagaac ttagcctcat ggaccagga aagcattgct ccaaaccctc ttgctaaaga 180
agagctgaat ttcttgcca ggctgatggg agggatggag attaagaaac ccagtggccc 240
tgagcccga ttccggttga atctctttac caccgatgaa gaagagggaac aagcagcgt 300

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gacttctagt tctgattcca acccaatagg gccatctcac agccccatct ctgcatatta 180
gtttctccgg ttggaccctt aggtgaaac attgctatct tctcctgta catgcagcag 240
gcctgttttt tggctaaaga aagtaatgaa aggttcagtt tagaaatgac aggccaggcg 300

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 ttaagactga aatatttagag gataaaacta gtgacatgaa aaaaatagcc ttggtgactt 120
 gtgcatcttt tgtggagccg gaaggtaatt tttttaattt cacgcactcg ctttccttct 180
 ggagagtctg aaaggttgct gagatattag cactgatcct taatgccacc tcagagagct 240
 ttgggatcag gcggcacttt gacaggcgat cacagngttg naaatnaggc actccagggg 300

<210> 28
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 <212> DNA
 <213> Homo sapiens

<220>
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 <223> n = A,T,C or G

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 gggctttgaa gatagctttg aggaagaaga ggaggaagaa gaagatgatg actaagcagt 60
 actctgaatg gaccacagtg tttgcacata tttgcaattt tttgctgntt tggaagngta 120
 tcataaacca gantcagnac agaactgatg ntgagggagg ggnacgntct cttttgtatt 180
 ttatttnnnn cnntnnnnntg ttctngnctg nnnntncnat cncntnngnn tttnnccnt 240
 aatnnanntt tttgtnnnnn tc 262

<210> 29
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 29
 ctgcgcgaat gggtgcctg tggacatcac caaggtgccg cctgcccctg tcaacaagga 60
 cgactttgcc ctggtccagc ggcctggccc gggctctgtct caggaggccg cccggcgcta 120
 tgggtgaactc accaagctca tacggcagca gcacgagatg tgcctgaacc actcaaacca 180
 attcaccag ctgggcaaca tcaatgaaac caccaagttt gaaaagtgtg cggaggactg 240
 taagcggagc atggacattc tgaagcaagc cttcgtcccg ggtctcccca cgcccaccgc 300

<210> 30
 <211> 297
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(297)
 <223> n = A,T,C or G

```

<400> 30
aggatcagga agtttgtgct ctctgctggg ctaagttttt cacctactag gacgggggag      60
gtgtgggagg ttttgggtgn cttctaagat acnnnacnag nttcnnnctg nttcccaccn      120
taaccacagaa tnnctatatt atcaggcgcn natgaccact ttaacttacc gngnccgang      180
tactgnaatt nnccatanct ntgaacnnan natnnnttgt gaggattaca gcacttgcga      240
gatgantncc actgctgaaa nattcttngn gactctantg ttatnccctt taccctt      297

```

```

<210> 31
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

```

```

<400> 31
gcaaggtgca gtagctcacg cctgtaatcc cagcactttg gaggccgaga caggaggatt      60
gcttttagacc aggagttcag gaccagcctg gccaacacag tgaggccctg tctacaaaaa      120
attaaaataa tcacttagaa aaatcaaata ttcttgaaaa agtttagact tgcaaatata      180
atatggggaa aatggacang cnaccnattn actctagtgc naaaatacca agccgactgn      240
ctnncattaa gttmnagaag cnnaagnagg anttaacagc tccatganga ctnttgatga      300

```

```

<210> 32
<211> 282
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(282)
<223> n = A,T,C or G

```

```

<400> 32
tagaagaaac acacagaaca agcagcctga catgtaacag agcaggaagc ccccccatgt      60
ccacctctac ctcatTTTTgt caagtcttca agagacctcc aggccagtc actgtgaatt      120
cattctctctg ggtttaggca ctacacctcc cgccacccca gagaggtagc atattaaatc      180
attaacagaa tctaataataa nggggcccctg tgattactgg gaacncttcc ttctgaatta      240
tatgcgngng anccntantn cntgnngnan gnncttttaa gg      282

```

```

<210> 33
<211> 296
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(296)
<223> n = A,T,C or G

```

```

<400> 33
aggecttttc ccacttctt aaccttcact gagagggtgg ttgggggtctg tttcactcca      60
tgtgtcctag atcctgtgct acagaccttc ctttctgtcc tcccgtcttg gacctcagtc      120
ctgggggctc caaagtgctg ttcgtgcagg tagtgtgatt acccaacctc ctgctganct      180
anccatttcc cgnccccccg ggacacgttc tctctgccaa tngncttctt gnctgagtc      240

```

cccaagctcc atctgtcatg ctgngnagcc canntggcgt tcanaatngg tctggt 296

<210> 34
 <211> 261
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(261)
 <223> n = A,T,C or G

<400> 34
 gctacagcca ttacagtcaa ctagatttga gtgctgccgc tggtaagtta attgaatagc 60
 caagttatgt tgtccttacc caagtagaca gtggaaaagga ataatggcan aggccatgat 120
 gcgagtntgg ccncanccat gcatnccntc tgtngtgntc ttagttctgt natactctat 180
 gttttangtt anttacctaa atcatntntg aatcangnnt nattttntnt tntatgtatc 240
 nmanngnta nttttntngt t 261

<210> 35
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 35
 ttcaaatttc tgtgcccttc tctcctctcc ttgggtctct cccatgtttt gtcaaacttc 60
 ccacaccag ctccttaaac aaagggactg gctaggtcag gcagagggtg agtcaagagt 120
 gctcaggtgt cccaggatga ctgtcaagag tgggtggcagc tctcctatgt ctcagccccc 180
 caggagcacc tcagccctgc aacggcatca aactgggtgg cacacactag tatggagcca 240
 gaaatcagtc agtgggaata tgatgcaccc aattttacag tgactgtgtc ctgaaactcc 300

<210> 36
 <211> 261
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(261)
 <223> n = A,T,C or G

<400> 36
 gcctacacta gtgaattaat ctgaaaggca ctgtgtcagt ggcattggctt gtatgcttgt 60
 cctgtgggtga cagtttgga cattctgtnt tcatgaggac tcacagtcga ccntcatgtt 120
 actttctttg nnnnactctn ttnccttggn tgactgcntg ctngatnttn tntcntnnn 180
 caaangtngc cnnntttagt nntnctgttag agatncangn gnnngntnnc tgttaaant 240
 cgnnnnnnct tnnncanatt c 261

<210> 37
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 37
 catgtgggtgc acaggtcgga tggtaaattt cagatctttg cctatagagg gaaagttcct 60
 gtgggttgta gttacagacc tgccagggga gtccctgcagc cagacaccct gtccattgct 120

agccatgcat	cattaccaaa	tatatggacc	gcatggcaag	ccataacccc	cttgggtggag	180
gaactgaatg	tcctacttca	ggaatggcct	ggactgcact	acaccgtgca	cattctctgt	240
tctaagtgcc	ttaagagagg	atcgcccaat	ccacatgctt	ttccagggaa	atctgctgtg	300

<210> 38
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 38						
aaaatgagag	tatcttcttt	tctcccttca	tttacctggg	tgttttggct	caccaaagag	60
ttgtgttctg	caaagtcttg	ggcaatccat	ggagctaaac	tggcattaga	gtcaagtaac	120
actcctcctc	tctccctggt	cttttcctta	aaatcttcaa	aggcattggg	ggttttacct	180
tagcaacttg	ctatttcgtc	ttcttagttt	gaaccttcaa	atatagctgg	atataataaa	240
atgctcctca	aatgaggaag	taccagaaag	accagatgca	tgggtctcatg	cttcccttgt	300

<210> 39
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 39						
cttcagcata	caccctcagg	gagtcacagc	cttccaacgt	ccattcatgg	agcccaggtc	60
caaaacctgt	gatccgagaa	taggataacc	cttttctgcc	catagggtgt	tttccaaaga	120
ccttttcattg	ctctgggtta	cgtgggaaac	aacaaaacag	aaccatcccc	cgcactgggc	180
agctgctacg	ggtcacgcca	gggaaaagtg	tggactgatg	tatttcgttg	tttaccatgt	240
ttctagccag	agctaatttg	aaaataggta	tcccaagaac	cagactgcag	gagtatccca	300

<210> 40
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 40						
gaggaactcc	ccaggcattc	tgtgagatgg	tagtggtcac	agcgctgaca	gatgtccctt	60
tgacacagtc	ctggggctct	ctctgcacaa	cagaaaggag	ttttgtgaca	aagttgatgg	120
aggagggttag	gtatttaatt	aggactagcc	agggagggca	gggactctgt	taagcagtga	180
atttgtcaaa	attttacttg	taccagggtg	gaagataact	agctgtggaa	gcctgtttctg	240
agatgccttg	ccatggccaa	tgactgggta	accacaaggg	tcactaaaag	agagggtttc	300

<210> 41
 <211> 298
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(298)
 <223> n = A,T,C or G

<400> 41						
ggaacctcac	ctgtgggtca	gctcacccca	catcogtttc	tcattacgtg	taaataaact	60
gtcagagctg	atgttacagc	ttttacagtt	taaagcattc	ccctcgtctc	tagttccttt	120
tttnttgntt	acatagtntn	ggcactttcc	ctgattcacn	anctttcngg	gnngangagn	180
ggagnaggng	gggcgtnatc	nggtgnattn	ngngngnnnn	gnngtgggaa	ggntntggcg	240
ngnngcngnt	atntggggagn	gtgggnagtg	gtagggntnt	antnngtgac	ntggattg	298

<210> 42
 <211> 298
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(298)
 <223> n = A,T,C or G

<400> 42
 gcttggtctg gggaaagctc atataagtat ggattttatt cctcaactag taggatacca 60
 atactgggtat tgaaacttgg ggaaaataac tggagatacc agtgcagcta tttaaagctg 120
 tagcaaggggc tgcaatcttg cggagatttt aaagagaagt tttaaagttt ctaatactga 180
 tgctcttttt tggtaaatac aagttttata aatcctgccc tgggatcctg attccccatt 240
 aatcaagatt tgtcagactt caccttctat aattagaaaa cacngttata agaacagt 298

<210> 43
 <211> 300
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(300)
 <223> n = A,T,C or G

<400> 43
 cttgaaccta ggaggtggag gttgcattca actgagatca taccacttca ttccagcctg 60
 ggtgacagag caagactctg tctcaaaaaa aaaaaggaaa actntgngan ggacatttgt 120
 tnagtaaaanc cnttcagtat tnatccntcc tttccccnca gcagctttnt ttctgtgcaa 180
 ctaaaaangga ccaggangta ataaatncnt tttggngggga ctaggccacn ccaantntna 240
 atcntctccc ntttncctta nacattttaa ttgcaaggcg ggnccctctg gngctcaaaa 300

<210> 44
 <211> 163
 <212> DNA
 <213> Homo sapiens

<400> 44
 ccgggccagg gtaacagaat caaccctgcc ctgccctgcc tgagcctggc accagatcac 60
 aagcaacaga agtcttctgc cagctgaaaa gctgagtgtg ggacagcagc actgaggaag 120
 ccctgacacc ctagtcccca ctctaagcag cccaccacta gag 163

<210> 45
 <211> 277
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(277)
 <223> n = A,T,C or G

<400> 45
 ctcaggcagg gagaaaagga ggcagtgggc acagccgtgg actatggcta cttcagattc 60

```

ttccaggacc ggaggattgc ccgctgtccc ttccacacgc tgatgccanc agagcgcgag      120
acgctcctgn cnccggaann ctctcttggn gtnantgnnt nttgcttcta tttttantng      180
nnnnannnct nttggttggn ccctattttt cncncngcct cnnngnanct tttttttacn      240
nngttntctn ctncngnncc aatnnnnnttt cctttttt      277

```

```

<210> 46
<211> 293
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(293)
<223> n = A,T,C or G

```

```

<400> 46
gaagagcttc tgcaggggct gagcagaccc cagggcctct tagccaatcc ccgggcctgg      60
tgaagcaggc gaagcagatg gtcggaggcc agcaactacc tgcacttgcc gccaagagtg      120
ggcaatcttt taggtctctc gggaangccc cagntttcct ccccantgat ganatgatna      180
tgtnncttnt nanntgcntt gtnttatntn tnncttntat ttnttatctt nttttcnant      240
ttnttttttt gnttccgtnc tnnnttnttn tnggngnttn tcttntttgt tgt      293

```

```

<210> 47
<211> 258
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(258)
<223> n = A,T,C or G

```

```

<400> 47
tttctaatat gattacatga gtctacttta taaactggta taggctatgt aattagcccg      60
taagttactt aaaggaccag gggacctaata ttttgtcagt tttccagtca cattgggtgcc      120
attcaggact ccagctgttt acaggaaata tgtacttata anaatagtat ttttccttga      180
ggnatnncan gatnttttgc tcattaccac ttgggnatta ttngntngca agnnngntaa      240
nncgcannnc cattgcta      258

```

```

<210> 48
<211> 271
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(271)
<223> n = A,T,C or G

```

```

<400> 48
gagagagagg gcctgctgga gagcataggg tctggaacac caggctgagg tcctgatcag      60
cttcaaggag tatgcaggga gctgggcttc cagaaaatga acacagcagt tctgcagagg      120
acnggaggct ggnagctntn agggcttntt gctntntaga tttentatnc ncntcnnttc      180
tntnttttac cttnttttct actncttntt tttttntttt ntgcntntnt ntntntttnt      240
nnttnncccn nctntttctn tncntcatct t      271

```

<210> 49
 <211> 291
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(291)
 <223> n = A,T,C or G

<400> 49
 aattcggcct ctctagagtc ttccccaggc cactccttca cactccttac tagcagcccc 60
 tgcttagcct ccacactacg gcctgggtgac ctgggtccatg gtgctcgccc tgggtgcttga 120
 agcctggnaa gcgnccangg ctgtgggttcn nggatgtngc ttnagntaan angnnggtaa 180
 cccgggaann naattnnan tnnanaagng gggggctttn nctntattnc cnaacctnt 240
 nctttanccn tannntttgg cngntgnaaa aggtattcnn antncctttc c 291

<210> 50
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 50
 gagttctaca ggtggagtgt gggggcccaga aggggctcag gtcttagggg tgtcatctga 60
 aaaaacagag atggtgatgg gacaccagtt ctaggagccc tctgcatggc cactttctgc 120
 ctcatctctt ctaaagcatt tcttctgttc ccttccattg gggtaaccac tgatctgtct 180
 tccccaaaaac tgagtcagaa gttggacttt gttacttggc tcatctacat ttaagarata 240
 gtcagaaaaa aaatgcagtc tttacatctt aagaaagctt acatggggcca ggcgcagtgg 300

<210> 51
 <211> 300
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(300)
 <223> n = A,T,C or G

<400> 51
 gttgttggtta ccgtgtgcca atgtgtccca tgtgggttgt gccaggtaga gaaacaggaa 60
 gtcaatcatc tgtgacagtc tctattctgt cgttttgctc cttgggtattt gatttgcact 120
 atatttacnt gannctgtt cactgtttta aaccngaggc catcttnana ggcattggag 180
 acctggcttc nnaatgntgt cccancantn ctgnctnaan ctctgntca tntcccnttn 240
 ntgnngtggn ccannacnnt tatttttnaat tngtatnnta atntanacnt gtttctcccc 300

<210> 52
 <211> 294
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(294)
 <223> n = A,T,C or G

<400> 52
 agaacacaaa acttgaaaga agttttatgc gtgtgacagt gtagggggct gcagttggtc 60
 tccctggagg ggaactccac acctcctgcc tttaggccat ggggtggaang tgctcnttgt 120
 tgtctccttt ntcccttttt gtngcgntnt gnnntntttg nttntnttt ttagttnttg 180
 tttctctctn ntntntntga ncttngttt ntntnnnnnc tttttctng cntgtngnnt 240
 ntcttngtn natattnnnn nngttgcnt ntgggntcg tctntnttt tcta 294

<210> 53
 <211> 165
 <212> DNA
 <213> Homo sapiens

<400> 53
 gtggctttta tcatgcatga caaacccctg gctttcctgc cagatggtag gacatggacc 60
 ttgacctggg aaagccatta ctcttggtgc tgctactgcc ctcccacagt caccccaata 120
 ttacaagcac tgccccagcg gcttgatttt cctctgcct tcctt 165

<210> 54
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 54
 ctttgggaca gtgtgagtgg agcttggtgc cagttgtgca caccggacacc cggaaacctc 60
 tcattaggag aagccactgc tgcgcaccct ggagatgggt tttgacctg ggctcccgtt 120
 aatgttggtg tggctccaga tgcctcagaa ataacttcca gagtcaacac catctgcgga 180
 agtgccgtga gacggtgcat gggctggaga cagagacagc cggcgccgaa catacctggg 240
 gctgcccgtg caaactgggg caagcccttc agcctccatg tggctgcttt actatggaga 300

<210> 55
 <211> 264
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(264)
 <223> n = A,T,C or G

<400> 55
 ctgtgactgg ctgagctgct gtggccgggc tgggcagtgt gcccacacag ctgagtgtt 60
 tcctgacact ccagtgtctg ggggtggtga ggagcgagta ctctcttnt tccanaccaa 120
 gttcctnct ngggtttgcc ttganacgtn ttatgntttt nnancntatt nntctnnnt 180
 atnanttttt anatntntn tnncttatta nantnnattt tnttantatn tatagnnnta 240
 tnnntnttn aanatatnat nata 264

<210> 56
 <211> 300
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(300)
 <223> n = A,T,C or G

<400> 56
 ccccagattc ccaatccac cgcaatgttt ggcaagccta ggactgataa gtagctctga 60
 tagaggagct ggtggctttt atacttcttc ctgggttttt gttggggttt gttgtttcgt 120
 tgttttttgt tttttttttt gttnggttgg gnaagnattg nnttnnacgn gngctatttt 180
 cagtaccana gtaancncaa ggtttnaatc nagttgcata aaacaccttt gcatagctat 240
 tnaatngccc aangtaaaac ttttaangcca tttcnaangc ttttaattcat ttttgaagta 300

<210> 57
 <211> 278
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(278)
 <223> n = A,T,C or G

<400> 57
 gtgtcccaag tgtccggagc aggcggcaga ggcttcagtg cggcaaacac aggcccagag 60
 cctgtgtggc accagcagca tcttagagcc ccaggtatat gctgagatct tatctcacgc 120
 tgtctccagt tgtctgttgn gacnaanngn tgnnnctant ncnnnacacc ttnnnanttt 180
 gtatnnttgc ntnnnntntn tncnncttna ntctnngttt naccngntat gctnnngnnt 240
 tntnttactt nannganata gtccacattc gctactct 278

<210> 58
 <211> 300
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(300)
 <223> n = A,T,C or G

<400> 58
 gctaagcctt acacacttgt cctgtgcctt tgttgtcgta tccctatgta aataccttct 60
 ccaccttccc attccttcat ggatgacttc ccagaccttc ccaactcatct tttgaatgtg 120
 tttattgctg acttggcaat gcatcaaaat cttttttttt ttnggccncn ggnntaacng 180
 nntnacagg ggaanncccc nngaaancgn aaaactnttn gcanctnang tcnnnccngn 240
 atnttcangg ncagggatna ttggtggcna nagttttnan gncnntaang ancctttaag 300

<210> 59
 <211> 262
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(262)
 <223> n = A,T,C or G

<400> 59
 aaaaagaagc cagtaaaaga tcctgagatg gattgggtttg ctgatatgat cccagaaatt 60
 aagccttctg ctgcttttct tatattacct gaactgagga cagaaatggc cccaaaaaag 120
 gatgatgtct cccagtgnt gcagtttttc tcactatttn ctgcttantn tannntactg 180
 ngggngangc ttantgctgg ntttantgag ngntantatt nctgnttntt tgcgncntgn 240

ntnnnanttn ttttcagttt cc

262

<210> 60

<211> 274

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(274)

<223> n = A,T,C or G

<400> 60

aaccggacgg	acttgcccat	cgccctcac	gacacgcgtg	cagtgggact	ctagccaagg	60
cggtggccga	gccatcatta	caatTTTTtct	ggagtaaagg	atccacgggtg	ggacatcaac	120
tggcacttac	tctgtttagg	aacttgagtt	gaatcatttc	taaacttgtc	cttttagacca	180
cgcttagggc	agcaaattcc	acttcctaga	actgcaaacc	gggagaggat	gtagntagat	240
tntggcatnc	tgccccggct	ctttgaggga	aaag			274

<210> 61

<211> 268

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(268)

<223> n = A,T,C or G

<400> 61

gaaggatctc	cttggttacc	aaagacactc	acatctttaa	ttttggtggt	tcgatggaag	60
cacaggatat	aattctctgc	ctccttaa	at	tggtgaacgt	gctgcaaagt	120
gaaatagaac	tagggctgtg	gggctttggt	ccgcttttagc	ggctttgttc	tntgtcnttg	180
cnnnctcact	tnngtgcntn	gagntcagnn	natattatac	annantgnnn	nnncnnannc	240
nttangcagt	nttgagggn	gcgacact				268

<210> 62

<211> 289

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(289)

<223> n = A,T,C or G

<400> 62

ggagaccgtc	actccagggtg	cattctggaa	gcattagacc	ccaggatgga	gcgaccagca	60
tgtcatccat	gtggaatctt	ggtggctttg	aggacattct	ggaaaaatgcc	actgaccagt	120
gtgaacaaaa	gggatgtgtt	atggggctgg	agggtgtgatt	aggtaggagg	gaaactgttg	180
gaccgactnn	tgcccentgc	tcancactga	ncnctctgan	tgnttnnang	cttnnttnnt	240
tnnatacnnt	atnnenattn	ncnntttttt	mntntttntt	tntttttttt		289

<210> 63

<211> 270

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(270)

<223> n = A,T,C or G

<400> 63

aacacttttct accacactgt gggaagcacc gataaacagt cataataatt atcattctga	60
gtcactgcaa gcgtgggggt ggatgctggc tctcacagta tcctgtgtag ggaccatgag	120
cagccatgcy cncctncang cacggncgag ctcaaccnga agancnngcg tgctccctgg	180
caggagcagg atgcctgacc acagantgat aattattatn acnggtatng nngcttgcca	240
cagngtggnn gaaaggnntg aatttcactt	270

<210> 64

<211> 291

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(291)

<223> n = A,T,C or G

<400> 64

gaataaggggagg aggtttggag tcctgggtga ttgcttggga tgccagcagc atttgagacc	60
aaacaggggt gtgaagatgg gtgggtcagc tcaccttgca gagtgtagca taaatgggca	120
cagccagaaa attgcttctt cctccaaagc tctctgattc aggaatttgg ggcntattgt	180
ggaacgttat nacattcttg tctctgngct tactnttccc gccattcatt acgaacnann	240
agtttnnaac gnngttctgn tntcaaagnc antgcacctn nttatcatac t	291

<210> 65

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(300)

<223> n = A,T,C or G

<400> 65

attgtgttga gatccaccgc tcacacgccg tacaccaccc agtggttca ttctggctta	60
gccgcagagg caagaaaggg accccacttg ctcccatgcc cacctcaaga aaaaacataa	120
aacaattttt tttaaaaaag aaaagaaatc tacctcagtt gacaggattc nacctttang	180
gtntcttntt ctttttngtt ntngcngnet tntctntttt tcttntnata ttctttnnnn	240
ttntntnntt tnttgcnnntn nnncttgnnt tnttntttnn ngcttctntn tttttatttt	300

<210> 66

<211> 300

<212> DNA

<213> Homo sapiens

<400> 66

gccttttttct ccgacgacca ggagccctac cctgtgactg atatttcgga cctgatccgg	60
gattcctatg agaaatttgg agaccagtct gtggagcaga tcgagcacct acgttacaag	120

cacaggatca	gggtcctcca	aggccacgag	gacaccacaa	agcagaacgt	gcttcgagtc	180
gttatcccg	aagtctcaat	tcttcctgaa	gacctagagg	agctctacga	cttattcaag	240
agagaacata	tgatgagctg	ttactgggag	cagcccaggc	ccatggcctc	acgccacgac	300

<210> 67
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 67						
atcatgctgc	tagtggtccc	gctactagtg	ctccgttagt	tttaaatacat	gttccaactt	60
gaatttgagg	tcttttgact	ttcgttggt	ttttgtcagg	gaaaaaaaaacc	tgtagggac	120
agggtttcac	aattcctttt	atatttccat	tcacatgtat	ttacaaacgt	gtgcctggag	180
tagtaagtac	acaataagt	agtttccagc	tgtttttggt	tcggaaacaa	aaaaaacaaa	240
acaaaacaaa	acaaaaaac	aacggaaggt	gaatggaatt	gtgtttgtaa	cattaaactg	300

<210> 68
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 68						
ggcagacttc	tcatccgtaa	aatcaggaag	ataacatgat	tccaagggcg	ttcatgagga	60
ttaaaggaag	tcatgctcct	aatttactgc	ctggcacaca	gacagtaaaa	tgctcaatac	120
atttatggaa	ggaatgaagg	actctggcag	aaaaacaggt	cagatgtgtc	tgctgtggac	180
aggtggctct	gtcgggtgcc	ggtgagtgcc	ctgggagtct	ggcagtcacc	tcctccgcag	240
ccgtgtcccc	agggtcacag	gagccacctc	aggtgggaag	ctctctgcca	gccttggaag	300

<210> 69
 <211> 255
 <212> DNA
 <213> Homo sapiens

<400> 69						
gctgcagcaa	aaccagagaa	tttcctcaag	tggcctgtag	gctccttggt	atcttatgcc	60
cccacccctc	cctcaacaat	atgagtgate	cagaactggc	ccaaacacct	cagctctggt	120
ccctttttgc	ccttcttggc	cttactctgt	tgttcaaagc	cactttggat	tgcttggtatg	180
cttcgaacag	ccatgaaaag	tagcctgcct	gtggcattta	gaggccaagc	aattgacaga	240
aagggtttct	tctac					255

<210> 70
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 70						
attgtgcacc	tctaaccctc	tctagcaacc	ttattgatac	cattcagtgc	caatattctt	60
ccaaccaggt	tgaggacttt	tgatttgctg	agaatgaaat	tctgcatatc	tttgcttgctc	120
actaatgcct	gtctgctctc	tgccctcacct	tcttgctccat	tggtatatgt	ttggcactct	180
gagagtatac	agcatcaatt	cattcatatc	tccaatactc	tttcattaag	tctcagttgc	240
ttgccagcac	agacaaggta	ctgcccacaa	aagtccttgg	aaaacaggca	agatatatac	300

<210> 71
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 71
 agatagtga ggacctagag gcttcccacc agcacagtag ccctaattgag caattgaaga 60
 aaccagtaac cgtgtccaaa ggcacagcaa ctgagcctct catgctaattg tctgtgtttt 120
 gccaaacaga gagttttcca gcagaaagaa cccatgggag caacatagcc aagatgacaa 180
 acactgggct gcctggctct gccactcctg cttactcata tgcaaaaacc aatggccatt 240
 gtgaccaga gatacaaaact accaggagc tgactgcagg caacaatgta gaaaaccaag 300

<210> 72
 <211> 261
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)... (261)
 <223> n = A,T,C or G

<400> 72
 ggcaaaaggc atctgctgga gctggtgacc ccagcttggt gccccccaaa gccagagtac 60
 gaggctgaga ggatgcagggt gtccctcctag gaggtttgag tcagaaggca cgaggcagaa 120
 gcagtggggg aggactccct cagtagagcg aggaggaggc ccctcatcca agaggagggt 180
 ggagcacagg ggggtctagg tttgcagttt cnggaccggn agctnangng tcccanggcc 240
 tttntntgt ttnganaatt t 261

<210> 73
 <211> 300
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)... (300)
 <223> n = A,T,C or G

<400> 73
 gtgccccag ccagggtgag cccctttccc agaactgect caccaccag cccttggtg 60
 atcctcatgt ctccctgcccc aggaccacat cctgagcttg ggtgccgact tcaccttgat 120
 ctccctcggc agcatcagga gaaagtggag cggntgttan aggtgtcang tgaannttnc 180
 ttgngntttc ttgntncttn ncntattatt tttngttant atnctngnn tntttaantn 240
 tnttttant ntnntntnt tntntttnt tctntttat tgtntntat tnttttttt 300

<210> 74
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 74
 agacgttgca gcaagtggac aagtggccgc tgtgcgggcc cctcgcttgt agtgagctgt 60
 tgcagcttac ggtccgttcc ctggaggggg ggaggagtga gaggttggtc agcatcaaa 120
 gtgctgggac atcccagggt ggtgagatcc atccacgac cagctccggt ggagaaagg 180
 cccatgtcaa gccttggtct gcaccccaag cattgggtgt aggactgggt cctggctgat 240
 cgtccttggt cccagtgggg tacatgtgag cccctgccag ggccaagtcc ttctcccgaa 300

<210> 75
 <211> 247
 <212> DNA

<213> Homo sapiens

<400> 75

```

ccgtgcctcg ctttccctgt cccccgccct atggacaccc ctggctcagg ccagtgtgct      60
tgtccagca tcgcgctcat ctectgtttt tatttgatgt tacagatttc atttcattag      120
gaatgagtgt ttctcccccg acttttgcct gcattatttt gccagctcct ccctggaaaa      180
gggcaggggc ggacactttc ccagcctccc accgtgctct gtctctagtgc gcacctgccc      240
cagggtc                                     247

```

<210> 76

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(300)

<223> n = A,T,C or G

<400> 76

```

tgcttggtt cggggctgac cgccgggtccc cttctttctc accacagtgc ccatttttca      60
tccagggaga acctcggggc tgggacacct cctggccctc accctgggtc atgtttacag      120
tcctcagtgc cccacaccgg tggccccctg aggacacctc caccctgacc ttgattttcc      180
caaacgctgc ctcttggtga cagactcagc ccaaaacccc ttctttctgt ctctggagac      240
ccttgagctt ggggaaatat ggaaggngtg tgtgtctgca atcaaggcct ctgcagctca      300

```

<210> 77

<211> 292

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(292)

<223> n = A,T,C or G

<400> 77

```

gcctgcataa ggtttgatta ctcaggagtt ggaagttagc atggtaactc agaggaaagc      60
acactgggga aatggagaaa agatgttctt tctataattg atgacttagc tgatgggcca      120
cagattcttg ttggatctag ccttgagggg tggcttatgc ttcagtctgc aattgcacga      180
ccagagaagg tcgtggctct tattggtgta gctacagctg cagatacctt agtgacaaag      240
tttaatcagc ttctgttga gctatnaang gaagtcatat gnnagggtgtg tg              292

```

<210> 78

<211> 277

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(277)

<223> n = A,T,C or G

<400> 78

```

gctttgcaaa ccacatacat tattatcact tacagtctgc agaactactg aattccaagc      60
tgccctcggtg gcaggagacc tgtgttgatg ccatcaaagt gccagagaaa atcatgaata      120

```

```

tgatcgaaga aataaagacc ccagcctcta cccccgtgtc tгнаactcct caggcttacc 180
catgatcgag agaagcnnntg tggtttgnt ngaanncgac tcgnnntcat tgctnagggg 240
gngaggcggt tcgnnnttag gcttaagnta ttgtggg 277

```

```

<210> 79
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

```

```

<400> 79
gccaaggctg tactgcggat gctcctgctg ctctgggttca aggctggcct ccagacttca 60
ccccctatcg ttccactgga cagagagacc caggcacagc ccccgatgg tgaccacagc 120
cctggcaacc atgagcagtc ctacgtgggg aagcgggtcaa accgggtggg gcgaaccctc 180
cagaacacgc cgtccctgca ctccaggcac tggggagctc ccagnanagc ggagggaacnn 240
cagcancagn atnncgannn gctnagtgcg ancnnacccc ncttggngct gcaggatacc 300

```

```

<210> 80
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 80
gagcgacgaa cttctgagac aggtgtgggt gcgagggtcg gtaggggtcat gggattggga 60
ccgaggtgtg aggagggaaat ctgcaattcc ttgctacaca gaggcgtggc aacttctgac 120
aggctgtttc tggggtatgg gctgcctcgg gttgttgctg ttacaaggaa agaaaagagt 180
tcccctgccc accgctctcc agccactggg ctacctctcg gcaggaaatt tgcaaaactga 240
gtttaacaag ttaggatcag cagagggtag aggagggtccc tggcagatgt ggggtctaga 300

```

```

<210> 81
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 81
aattcggcgc ggtgagtggg gagactgcct tgggcegggtt accgggcatg actcttcgtg 60
acgattctga gacccccctc tccccccgaa ctctccagc ccgcagagtt ctatctccag 120
gtggaccgct tcagcctgct gcccacggag cagccccggc tacgggtgcc tgggttggtaa 180
gtgatgcctc cgcaccaggag ccctgctctg tctgggtgag catagccctc ctgcagctgg 240
agggtagaac aaggaaggcc tgaggtagag ctgggagggg gcatgggtag cttgggatgg 300

```

```

<210> 82
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 82
ggaggatgtt ggcaagcagg tgtggcgggg cgccctgctc ctggcagact acatcctgtt 60
ccgacaggac ctcttccgag gatgtacagc gctggagctc ggggcccggc cggggctcgc 120
tagcatcatc gcagccacca tggcacggac cgtttattgt acagatgtcg gtgcagatct 180
cttgtccatg tgccagcgaa acattgccct caacagccac ctggctgcca ctggagggtg 240
tatagttagg gtcaaagaac tggactggct gaaggacgac ctctgcacag atcccaaggt 300

```

<210> 83
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 83
 aggcgcgggtg ccccagagtg ggggtgcctgc actctcagct tccacaccct caccctaccc 60
 ctacatcgga ccccccaag tatgtagggg gggcagaagc cacagtcgcc gccgccaggg 120
 gcttgctcct ggctctgtcc tttgcttccc tccgtcctcg ctcagttgtg atccagcagc 180
 cccctcccc actgcctccc cagctctcag tgaccccgac tgtctcctga cttagccgag 240
 cccccgagac accttgagga ggccgctcct tcccagacac acccccacgc cccactgga 300

<210> 84
 <211> 300
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(300)
 <223> n = A,T,C or G

<400> 84
 gtgacttctg ctatccatgt tgagggtgca gaacttgaag ctaatttacc ttgtacatgt 60
 aaagtgcatt ttcctgatcc aaacaagctt cattgttttc agctaacagt aaccccagat 120
 gaggggtact accanggtgg aatatttctt tttgannctt ttnttcnnta nagtatncat 180
 nttatnctn cnaatctnca ttntctganct anttanatnn cacttnaata cnttcncttg 240
 annctctct tnnnnnnntn nttctnntnn nncctntan tanatcnntt tatatctctc 300

<210> 85
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 85
 cgtagagggt tgagaaatga cttgaagagt catgtgtggt ggcacgttta tggccttctt 60
 cagaggtcag acaagaagta tgatgaagcc attaagtgtt acagaaatgc actaaaatgg 120
 gataaagaca atcttcaaat ctttaaggac ctttccttac tacagattca aatgcgagat 180
 cttgagggtt acagggaaac gaggtatcag ttacttcagc ttcgacctgc gcagagagca 240
 tcatggattg gttatgctat tgcttaccat ttattagaag attatgaaat ggcagcaaag 300

<210> 86
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 86
 ctacggtttc ccgtcaccaa ttttccttgg aattggacag atggcagcca ccataatgat 60
 actatatgtg tccaagctaa acaaaatcat tcacttcctt gatattgata agaaaattcc 120
 tgtaaagctg tttcctctgc ctctcctcta cgttggaaac cacataagtg gattatcaag 180
 cacaagtaaa ttaagcctac cgatgttcac cgtgctcagg aaattcacca ttccacttac 240
 cttacttctg gaaaccatca tacttggggtg attttgggtt tcctccattc ttccagtgtg 300

<210> 87
 <211> 295
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(295)

<223> n = A,T,C or G

<400> 87

tggaggaagc	agcagggaaa	acctggcgct	gcaaaatgtg	caggctcgaa	tacggatggt	60
cctcgccctat	ctgtttgctc	agtrgagcct	ctggctctcg	ggtgtccacg	gtgggctcct	120
cgtgctggga	tccgccaacg	tggatgagag	tctcctgggc	tacctgacca	agtaagactg	180
ctccagtgcg	gacatcaacc	ccataggcgg	gatnancang	acggacctca	nggccttcgt	240
acagttctgc	atccagcgct	tccancttcc	tgcctctgctg	agtttctggt	ggacc	295

<210> 88

<211> 300

<212> DNA

<213> Homo sapiens

<400> 88

atccacgcgc	attccccaat	accttagttg	tagtcaacta	actagatagg	ctgccgaaga	60
tggtttaact	gtgtccagct	taactacagc	caggcttttg	aatgcctggc	ctatgtctgt	120
aaatgaaatc	taacaattta	ttgtataacg	ttgttaaaca	tgaagcatga	tgttggccct	180
ggataaaaca	ttttaaattc	tgcgtcgttc	taccagaggc	tcagtaactg	accggttgaa	240
agaaaactgt	tcattgtaac	ctaattgatgc	tagttagata	gcattagatt	atgttagaga	300

<210> 89

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(300)

<223> n = A,T,C or G

<400> 89

gccttttgtt	gtgaagttgc	tcattcattta	ggagtgttta	attctaaaaa	gccttcagcc	60
taagaaagct	tcattctgtg	ggaccagaga	cttgttgctc	agggagttag	tgatgggact	120
tgggcatctg	atctgcaggc	gacaagttaa	gttcaactga	agttgtaggg	aatttagaca	180
gttgacatc	attgccgttc	taggggcctt	gtagaaagat	gaaacagttg	tttttcattt	240
accagcacct	ctcagttata	naggtnatgg	aacnttcnct	tactttgnat	catcattcct	300

<210> 90

<211> 300

<212> DNA

<213> Homo sapiens

<400> 90

accttttacct	gcaacctggc	tgagaatgtg	tccagcaaag	ttcgtcagct	tgacctggcc	60
aagaaccgcc	tctatcaggc	cattcagaga	gctgatgaca	tcttggacct	gaagttctgc	120
atggatggag	ttcagactgc	tttgaggagt	gaagattatg	agcaggctgc	agcacatatt	180
catcgctact	tgtgcctgga	caagtcggtc	attgagctca	gccgacaggg	caaagagggg	240
agcatgattg	atgccaacct	gaaattgctg	caggaagctg	agcaacgtct	caaagccatt	300

<210> 91

<211> 300
 <212> DNA
 <213> Homo sapiens

<400> 91
 ggatcctcca ggctgccggc tgggaaggcg tgggcgaccc ggtgtgtggc gcgcccagag 60
 ccccgcgttt cagccctagg gaaggaagcc agttgaggga agttctccat gaatgtacgt 120
 cacaatgatg atgaccgacc aaattcctct ggaactgcc aattgtctga acggagaggt 180
 agccatgatg ccccaacttg tgaatggaga tgcagctcag caggttattc tcgttcaagt 240
 taatccaggt gagactttca caataagagc agaggatgga acacttcagt gcattcaaga 300

<210> 92
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 92
 ataagcagt gctttcaaac cgtgtgctct aggactggct gggccttga gaggcgtcag 60
 tggcgccctg gggaaacagg gcaccagagc aatgggtgag gtccagcctg tcctgctcac 120
 gtcagccagg gcacatccaa gtctgttgct agttgactgt tgggttctct gattagagtt 180
 tgtgagggac gagggaggtt tttaaaccca cacaacaca gcatttattt tactgcagat 240
 actgtttgaa gtgctgtatt agttcgtttt cacgttgctg ataaagacat accagagcct 300

<210> 93
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 93
 ccccttgaga tttctggctt tttgtaggga cctcagttcc attttcccaa ctcatggggtt 60
 ctcaatacct taactatctt ttatttgtca aattccaagt cctcaactca cccaccacta 120
 cctgaccacac tgcagtcacc acaccacct acccactttc ccagggatgc tttatgatta 180
 gcttaataac tcaccattct gatttgtaat gccgccccca cccctttttt ttgacacctg 240
 ggagtttctt tttctttctt gtaagatcag cattacacaa acaagcacat tttctttatt 300

<210> 94
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 94
 gctgcattct caatgaggat gccaccctac gctgcgctgg ctgcgatggg gacctcttct 60
 gtgcccgtct cttccgggtg gtgcaggtgg aatgttctgt gcgagagctc aagggtctgc 120
 tggatccctg acttgatctt ctttgttcca cagagagggc catgatgcct ttgagcttaa 180
 agagcaccag acatctgcct actctcctcc acgtgcaggc caagagcact gaagacaccc 240
 tggctctccc ggaagggcag tcccacaggc agcggcacc atttctgggc cccgccacag 300

<210> 95
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 95
 gtgaggaaag aaatagtcag taaattgatg cgatccctaa aaagggcagc attgcagcgc 60
 ccaggcataa gacgtgtgat tgaagatccg gaagataaag aaagtagact aatcatgttg 120
 gatccctata aaatatctac tcatgattcc tttgagaaag cagaactcag tgttttagag 180

cagcttaatg tcagtccaca gatctctaaa tacaatttgg aactaacata tgaacacttt 240
 aagtcagaag aaatcttgag agctgtgctt cctgaagggtc aagatgtaac ttcaggggtt 300

<210> 96
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 96
 gcttagataa gtcaaagca gtagacaatg gatagtcac acagattttt gtacatggga 60
 cttcacatac cttaattgaa tatccatcgt gtacaaaata ttgctcaagc aatgtaggaa 120
 tcaagggaaat aaaagcttat tctgatatta tagagcatat aacagccatg taaatatgca 180
 tggtagatag aaatcagttc tatgatggat gtaccagcaa agttgcagag cattatatag 240
 agttgctttt gatatgagcc ctagaataaa ttgggataga gagggagttg gggaatttga 300

<210> 97
 <211> 286
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(286)
 <223> n = A,T,C or G

<400> 97
 ttttcttggg gacattccag attgccatat tactttatct taaacagcgc tatgacttta 60
 aatccaaggc tgctcggaag atttttttag gtctctcata agcctattct tccctgatca 120
 catgagtggg agaggtaagc ctnattttga angcccttcc tngnnnnna nannttcnnn 180
 nccannnnn tnnngaagan tntttnnng tnnncanttg ccatnttcc ntgnnnnnn 240
 nnnngnacag gggnncaant tnnnannccc ttttnggggt tcccaa 286

<210> 98
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 98
 atctctcagg aaggctttga acaaagaaa gcagcagcca tttcagcaag cggggggccac 60
 acctaagggt actcgagagt gaagattatc tcagaagttt agaatcatga cacttcgggg 120
 aagataggat cagggatgaa tgggagacgg gggcttaagg gagagcttag aagtttagaa 180
 tctaagagag aaagggtttg tttttgggga gagggattat gtatgatatt taatagcacc 240
 tgcaaaactt aagatagctg ggggggttctc agtaactaag gagggtcctg accctaaaag 300

<210> 99
 <211> 287
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(287)
 <223> n = A,T,C or G

<400> 99
 ctgcattgtc cactggacgt tttagtcata ttcagacacc agttgtttcc tccactccca 60

```

gacttaccac atctgagaga aacctgacat gtgggcatac ctcagtgate cttaatagaa      120
tggtcccccgt gcttccaagt gtcctgaagc tgccagtttag atctctaaca tactnnantg      180
caagataagn caagagantn accgagattt tgnccnccgan annntactnn nnttganttt      240
gntgcnatnt antaactnct ggannnnnna ntntcnatnc atcccccc      287

```

```

<210> 100
<211> 263
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(263)
<223> n = A,T,C or G

```

```

<400> 100
cttccttctc tatacccttc tctatgtttt attgcataaa taggaaacat tgttgaaaag      60
actttcctgg taaactgttc tgaattttac gtttatcgaa atatctccaa agactcaatt      120
tagaacttta ttatgccctt atttattnaa catttnttng gaacnaacat gtatatngcc      180
cttangtngg cnnnngcnag nggtanann ngngagntct naatgngngn nnaannngnc      240
ggnnngntcg gtnggnngna tgt      263

```

```

<210> 101
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 101
gtggccaagg gtggggccaa gactccacat agatccaggg gctcattcca tgatgctctc      60
atttctctaga gtctccagg tgtacagggg attgtttcac tgacagacag gccaggatat      120
ctcataagct tcttgggcac aagttggagt ggtatgggtg gaattccagc acaattaggg      180
atatcgtggt tgggtgaaca caaccataca agggggagag gtctctacca gtggcctgtg      240
cagtcctgcc atgttctttc ctggtcaatg ttttaaataa taacttgga tactactaaa      300

```

```

<210> 102
<211> 290
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(290)
<223> n = A,T,C or G

```

```

<400> 102
gtgcgtctag aggaaatgta ctgttttgca gataataagt attgatcaga catgcatttt      60
tacctctgct gtgggatttt agtctcatta ctttgttgat ctactttgta gttaacctag      120
agaagttaac acagccattg ctacagagct ttctgccact tgagttccag aattccagaa      180
tccagtttcc tagggattgt ggggagtaaa aagagggtata ggggtatggc cctgtatggg      240
agcaatacng nctttattga ntagtgtcta tattgtcttg tgactcaggt      290

```

```

<210> 103
<211> 293
<212> DNA
<213> Homo sapiens

```


<220>
 <221> misc_feature
 <222> (1)...(293)
 <223> n = A,T,C or G

<400> 103
 attttttgac aggattttat tttgtgtgca tgcattctgc tccaagtgtc acaattctgg 60
 ttacaataat tataatatct ggagttacta ctaagacttt cctgaaagag gtgtattgta 120
 ccaaattttg taacatatnn tnnactaan tgatcntana gcttntctana ttntgnatan 180
 ggnatgtgnt ancancncnn nncnttnaac nggntttnnn ngtcggntnt gntttctnnt 240
 ngntgggtgnc cnatnnnnnn tnnntntnn gttctntttn gnnctnttgt ttc 293

<210> 104
 <211> 299
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(299)
 <223> n = A,T,C or G

<400> 104
 ggctgcccc gcgtttagcag cctgtaccag gtctatgacc cgctctgccc acggctgtgt 60
 acgacatcag accaggcact ctccagggccg ctctccagct caccacagtg tctccacgtg 120
 ccttaccctt tctccttcag gccaaagtttc gcggngtgct naattaatac gagcacnagc 180
 aanaaattgg acnggcangn aagnntntnn agacacctaa gataaagtcc ggancccaag 240
 gctttanctt aaccatgtat ggtaccccat tcattcatcn agaaaaccct caacagctg 299

<210> 105
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 105
 cccgcctcgg cctccaaaag tgctgggatt acaggcgtga gccactgtgc ccggccttca 60
 attttattta ataattatgc atgtgtggga tgcaatgtga ttttttgata cgtgtatata 120
 atgtgtaatg atcaaattag ggtacttagc atacctgtca cctcaagaat gtttttcata 180
 atattttatt tgtaagataa gcattcttcc catgtgcaca acattgctgg gtattgttaa 240
 gagatcatga aaacacacaa tccttattga gaagggtggc aggtgtggtg gctcatgcct 300

<210> 106
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 106
 gactcttttt tcctttgtat tttctttctc agtctgatct gcttcttgac ttcttgaaaa 60
 ccttccaaat ttcttgattt ctaatggcac tctttctaga tttctagccc tgtacgataa 120
 tattctttca tcatttcagt gggcttttgg agggaggcgg agatccaggt gatctgtcta 180
 cactattcag tcagaaagct ggatggtttt tctcactgtt tagctgtgac tcatacttag 240
 aaagtgggtt aaatgtgaat atcttagttc tggttgtaca attgaggtaa tcctcaattc 300

<210> 107
 <211> 289
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(289)

<223> n = A,T,C or G

<400> 107

tagaggttgg	aaaggagtca	tgaggggtgg	gaaactagca	ggggcacatg	gaagctaggg	60
aaagaatttt	gcttgagatc	gtcaaagtga	ggggaagagg	gtagtaagca	aaggagaaat	120
gttatatggg	gttcggaggt	tttagntcta	ntntnnccct	ntnatctgt	tctttntntn	180
gttngetctn	tnttntctcg	nnagcntnct	tctctntnct	nnatnnttat	ntnngtcctc	240
gtntgtntct	cncnncnttc	ncntctctct	ttntctnnnc	tntccctat		289

<210> 108

<211> 295

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(295)

<223> n = A,T,C or G

<400> 108

ggtagaagga	gcctcctcaa	aggcagtgt	gggcacccac	gggtgtgctg	gatactggag	60
tttgagagga	gggaggtgt	gtggccttgg	atactctaaa	anagtngtaa	ntntcactnn	120
tttgtgncta	tannntnntn	gtacttctgc	tcaacnnnnc	ttantttact	gagnntattn	180
nnncngnact	ttnatnntan	tnattntecn	tttatnccct	tactntnnca	cnttntgctn	240
cctttattgat	anctgggtctn	atnactttct	nccttcattg	ttnttcttac	ttttc	295

<210> 109

<211> 300

<212> DNA

<213> Homo sapiens

<400> 109

gtcccaggaa	attcctcccc	ttattcttcc	ttgaagtgcc	cgagcatgta	gggcaagaag	60
gaaggctgaa	gcgctgtccc	taggaggaat	ttctccttca	ggggagcctc	agttttgccc	120
atztatctaa	ttgaatcagt	tttttaccca	atcccccgat	tttgtaggat	aatctccctt	180
atctaaagtc	aactgattat	ggactttaat	cacatctaca	aaacacttcc	atggcgacag	240
ctagatgagt	gtttgaataa	ctgggactgt	agcccgtcca	agttgacaca	taaaactgac	300

<210> 110

<211> 286

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(286)

<223> n = A,T,C or G

<400> 110

tgttttttacc	taaattgggcc	cacgtggcag	catgattttt	gtccttttagc	gccctgcttt	60
ggggacctct	ctgtgctgtg	ccgtatagct	tcaattcatt	cttccaacct	ggcgctttt	120

```

ggctctataat ggagatgggtg cagntnattn cttngcactt gtcacaacgn nncncctaen 180
nncncctggg aatnnnnancc cnctaatacc tttnacatt taanaaatnc atatttncgc 240
atgncnaaac gancnnnana cncnatgnaa atctcgcaat atcata 286

```

```

<210> 111
<211> 269
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(269)
<223> n = A,T,C or G

```

```

<400> 111
gggcaaccct ggctctatca ttttcctttt ttgccaaaag gaccagtagc ataggtgagc 60
cctgagcact aaaaggagggt gtccctgaag ctttcccact atagtgtgga gttctgtccc 120
tgaggtgggt acagcagcct tggtnccctt ggggggtggn annannaacc atggnnncgt 180
gannaactnnn tccagatggn tttnannnnn ngncntcttc ntcccnatn ctntntntng 240
nnttnagnt gtangntctt nctnnntcg 269

```

```

<210> 112
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 112
cccaaactta atgaagaact actcagcaag caaaaacaac ttgagaagat tgaatctgga 60
gagatggggt tgaacaaagt ctggataaac atcacagaaa tgaataagca gatttctctg 120
ttgacttctg cagtgaacca cctcaaagcc aatgttaagt cagctgcaga cttgattagc 180
ctgcctacca ctgtagaggg acttcagaag agtgtagctt ccattggcaa tactttaaac 240
agcgccatct tgctgtggaa gcactacaga aaactgtgga tgaacacaag aaaacgatgg 300

```

```

<210> 113
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 113
gaactgtccc cgttatctc tgtccatata gcaacagccc ccaatggccc tgaccacctc 60
cctccccagc agaacgcccc ttctgtgggtg tgaaaatact ttctattctg gtcagcacca 120
agaatgcctt tttcccttct gcaggtctc cagtgtattc ccttaagaat gccccttca 180
aagccacccc cccatcgag cggcacagct cctctagag ttcccttcaca ctacatcct 240
ctccccgctc aggtagaaat atccgctgct ttagctccag gctcccatga catactcccg 300

```

```

<210> 114
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 114
cctaggcccc ctggacctgg tctttcagac acatttagcc gtgtttcccc atctgtgtgc 60
cgtgatccct atgatcagtc tccaatgact ccaagatctc agtctgactc ttttggaaaca 120
agtcaaactg cccatgatgt tgctgatcag ccaaggcctg gatcagaggg gagcttctgt 180
gcattttcaa actctccaat gcaactccaa ggccagcagt tctctgggtg .ctcccaactt 240
cctggacctg tgccaacttc aggagtaact gatacacaga atactgtaaa tatggcccaa 300

```

<210> 115
 <211> 295
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(295)
 <223> n = A,T,C or G

<400> 115
 gctccagaca gctcttctgt catttcacca ggtccaaaca ccagcaccaa ggctcccatg 60
 aaatatcccc tttattccat ctcaaactct tacctatcaa ctccctgccc agagaacctg 120
 gaataacata tttacttcta gtccctttca atgcattttc cccttggggg aggtgtggga 180
 gggttgtgag tgagtacntg aaagannatc ntacngatng accatntttg anggtnnctc 240
 anagggataa atanatatag ntaaccgatg nnnnnncnnc nggagaaacc atgat 295

<210> 116
 <211> 269
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(269)
 <223> n = A,T,C or G

<400> 116
 ccccccgcgt ctcccgggag cgtcgccgcc acctgcacgc gtctggcaca caaacgtcgg 60
 tctcacccct tagtttctgg aagagaaaaa ggaaaagcca ccgagaggcc tgaccctgag 120
 gggtcggtn gtagatgcggn cncgtattat agggaagcga ttgatgagcg ttgactgttc 180
 atcatntnaa ntgtatgntn tnattttntt tttttnttat tatttctttt tttatttttt 240
 tntttttntt ttatatnnnt tttaattta 269

<210> 117
 <211> 266
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(266)
 <223> n = A,T,C or G

<400> 117
 gtttaccctt ggtttattgt gattatcatg gccattcccg aaagaagaat gtatttatgt 60
 atggttgag catcaaagag acagtgtggc ataccaatga taatgcaact tcatgtgatg 120
 ttgtggagga taccggatac aggacattgc ctaagatact gagccatata gccccaccat 180
 ttgcatgag cagctgtagc ttcgtantgn aaaaatcttt gactcnnnngn tctgtnttnc 240
 tcanntatag gaccacttg aacaaa 266

<210> 118
 <211> 300
 <212> DNA
 <213> Homo sapiens

```

<400> 118
accatcttca ctctctggga agaaataagg tgggttacca tttacatccc agtgataagg      60
gccagtttga tcattccaaa gatggttggg taggccccgg ccctatgcca gctgtacaca      120
aagcggcaaa tggacactca agaaccaaga tgatatcaac ctccatcaag acagctcggga      180
aaagtaaaag ggcacagggg ctgaggataa atgattatga taaccagtgt gatgttgttt      240
atatcagtca accagtatta aaggcctgcc tgatatacaa ccctcgaatg caacacagtg      300

```

```

<210> 119
<211> 283
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(283)
<223> n = A,T,C or G

```

```

<400> 119
cctccatgaa ggatattttt ggagtcgtag gagttacatc tgctaacatg cttatttttca      60
ttcttcttcc atctctttat ttaaaaatca cagaccagga tggagataaa ggaactcaaa      120
gaatttgggc tgccttttcc ttgggcctgg ggggtgtgtg ntctngtnnn tnantntntt      180
ggggnntnag nnctaannna gntcnngngn ctnttttnag agatangggg ntctttgctt      240
ctngnngntc centtttttn ttgnncncna gnngtgttgt ttt                        283

```

```

<210> 120
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 120
ttcagtagca ggggcccggc gtggctccca tcctccggaa tctgcaaaat ggctacttct      60
tcagaaataa tggggagagg gatggcaaga ggccagagat caaggccctc gagtattaac      120
ttgagcattt gggcacaaaa tagacacttt tggattttcc cgtcttttcc aacaccaagg      180
atgagattat caaaagatgt gttaaattaa tttgtaccgg cggggcgcgg tggcttacgc      240
ctgtaatccc aacacttttg gaggccgagg cgggccgaat cacaagggtc tgagttcgaa      300

```

```

<210> 121
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 121
cacattattc cttttccatc ggaagtggcg ctctgtgcatt caactcggtc ccgctcatgg      60
aaccctcttt taaaaagacg cagggcacct gtgagcgagc gagcgagcct aaggcctccc      120
agcggcagcg cccgtgtcct gggcactcag cgtgctgggc agagcaggtg cgatggcccc      180
agtcctagca gcctcggccc atgtcctgtg cccttacatg gctcccggac tgtgcaggga      240
gccgatacgt ttgctgatag caatactgga accaccgggt gcgatggcag tgaggagact      300

```

```

<210> 122
<211> 299
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(299)

```

<223> n = A,T,C or G

<400> 122

aataaaaccca	agggcaagcc	tttgaatggg	tccacagctt	ggtacaagtt	cccatgctat	60
gtgcagaacg	aggtgcccc	tgcagaagcc	tggattaatg	ggaccaacct	agctgggcag	120
tcttttgtgg	ctgagcagtt	gcagattgaa	tatagctatc	cttttacttt	tccacctggg	180
ttgtttgcac	gctacagtgt	ccagatcaac	agccatgtgg	tgcacaggtc	ggatggaaaa	240
tttcagatnc	ttncctatan	aggnaaagnn	gctgtgggnt	ggnagnatan	atgacctag	299

<210> 123

<211> 293

<212> DNA

<213> Homo sapiens

<400> 123

ggccagccag	ctgctcacac	tggacaccac	ctctatcccc	ctgcgcctct	gcccgtgtgc	60
ctcctgcccc	gacgccccg	tgctggccgg	ctgcgagggc	ggctgctgct	gctgggacgt	120
gcggctggac	cagccccaaa	agaggagggt	gtgtgaagtg	gaattcatct	tctctgaggg	180
ctccgaggca	tctggacgga	gagtggatgg	gctggcattt	gtgaatgagg	acatcgtggc	240
ctccaagggg	agcggcctgg	tcaccatctg	cctgtgggagc	tggaggcaga	cgt	293

<210> 124

<211> 208

<212> DNA

<213> Homo sapiens

<400> 124

aggccagtgt	gggacagggt	tgtgtaggtg	tgcatttcaa	acacatttat	tattcagaag	60
tgggtgcagat	aacgcttaga	ttacaccgaa	gaatttaggg	aggggtggggg	atgaaggctc	120
gttagtaacc	agaaacacat	tagttgggca	tcagtaaggg	gcaacataaa	ggaatgggtc	180
ccctcaaaaa	cgaacaaacc	aaattttta				208

<210> 125

<211> 300

<212> DNA

<213> Homo sapiens

<400> 125

gtgaactctg	cacagtcctt	gtatatcat	tggaaaacag	cagtgcctctg	gaatagttat	60
tttttgaaat	gcccagagca	gttaggaaag	tgatgaaggg	tgaagtgcgg	agagggaaga	120
ggtggggcct	gatgcagttt	gctgggggtg	caaccacaca	ctccctgtaa	ggcctgaagc	180
agccagtgtc	atgtttctag	ttggaaggca	gatagagctg	tggagggtgg	ggcatgatta	240
ggtctgggctg	ggaataagggt	tgcttggcag	tgtattattt	attcgctaac	tttgggtggcc	300

<210> 126

<211> 300

<212> DNA

<213> Homo sapiens

<400> 126

gtttatgggt	ttacattgtc	atgtctccac	aggacaatgc	acatgggtatg	tttgtcagaa	60
cccagttgga	gttttgtttc	ccagcatcca	aaggaaatcc	ctaactttca	ttttttcttc	120
ccgtaagcag	ccccgaacac	ttacttataa	gccatctcta	cctgaattag	caatcatgga	180
taagctcaat	aactgatcat	ttccttatca	gtttaaacca	tatatatttt	aacactgtct	240
ctttttcaca	cacactagtt	agctaagaat	gagctggggg	gctgggcgtg	gtagttcacg	300

<210> 127
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 127
 gtaaggtaga aaaattcctc acatgggtta ataaaccaat ggatgaagaa gcatcacagg 60
 aatcatcttc tcatgacaat gtgcacgacg cttccacaag tagcgattca gaggaacaag 120
 acatgtctgt taaaaaagggt gatgacctac tggagactaa taatccagaa cctgaaaagt 180
 gtcagagcgt atcttcagct ggtgaacttg aaacagaaaa ctatgaaaga gacagcttgc 240
 tagcaactgt tccagatgag caggattgtg ttactcaaga agtgccagac tcccgccagg 300

<210> 128
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 128
 gtgtggagtg tcccaagcac agcaggcagt cagggtggcc aatacaaggt gctggcagtg 60
 aagtgggggc agactgagcc tgtgtagtga agtgtcttga ggaacgtcag ctgtatcttt 120
 taggaaacca aaactgcata gacattgaac ccaggcagaa ggatcatgaag tcagagctaa 180
 gaaatgctag tggggatagg gggtagagata gagttgggaa atgtttcaga gctacagggtg 240
 acagttgttg gtgtccagtt ggatatgtac catgaagggg agaagcagtc agagtgggca 300

<210> 129
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 129
 atccctcttt gcagaaaagg ttatagaatg ctgttcttta taaccaaaga acttacataa 60
 gacaacattt ttgtgtcca ctcttttgtg tgaacatgta tgtttgactg caagtttggt 120
 gccataattc ccttggctac caagccacgt gctgccattc tctgtccttt gtttcataag 180
 cacttgaga aatctcacag ctatattctt tgggtcttcca cctgccccct cacttgctga 240
 cttgacattg tattataact gttgacaatg actgggggtcc tgactccaca gttgcctgga 300

<210> 130
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 130
 ttcgtcacgg gtaattatgt gctggatcga gatgacctgg tggaggccca aacacctgag 60
 tatgatgtgg tgctctgccc caacctggt cgtcgtatgg caagagaaag actcttacag 120
 aaacgatcta caagaactac taccgaatcc aattgaagcc agagcagttc agttcctacc 180
 tgacatcccc agacgtgggc ttctccagct atgagcttgt ggccacacccc cacaacacct 240
 ctaaaggctt ccagcgtcct gtgtacctgt tccacaaggc ccgatccccc agccactaag 300

<210> 131
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 131
 ggtggagggg ggcagccggc atggcatggt gaggaagggc catggaagag gacagaacct 60
 gtccacggag tcaatgctga ggaaggaaga cggaggatga ggccagtcag gtttttcgtg 120

gtggcagtgc	cttatgtttt	tatcgaagtg	tatattcaca	cagaaaagca	catctcccag	180
gaccttgaga	gagcttgaac	cagaccactg	tggacacggg	ggccacccgt	caccactacc	240
cttcccaagg	ggagacgagg	agcaagtagg	cttgagggaa	aagctgcaca	ggactcgtgt	300

<210> 132
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 132						
atttgaggat	ctcgaccttg	tccttccagc	aggtgctccc	aagccacctc	tgggcctgag	60
aataggcatc	acatgactct	gtttaatcct	ccgacacagc	aaggatgccg	ggaagcaggg	120
caaagtgggt	caagttatcc	ggcagcgaaa	ctgggtgggtc	gtgggagggc	tgaacacaca	180
ttaccgctac	attggcaaga	ccatggatta	ccgggggaacc	atgatcccta	gtgaagcccc	240
cttgctccac	cgccaggtca	aacttgtgga	tcctatggac	aggaaaccca	ctgagatcga	300

<210> 133
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 133						
cccgtgagt	ggcagtggca	ggaagtcggg	ggaagcagat	ccctgtgcag	aagttgaatt	60
accagggcgg	ccacacacgg	gctgcacaac	ctttgcagtc	gtgcacggca	agtgggatgt	120
ggcctccgcc	catgattggg	cacctgggtca	ggctgggaga	tccaaatagc	acccagtggg	180
cagctgtccg	acccctggag	gggcaagcca	ggaaagaaac	ttagggcccg	ctgtgaccag	240
atgtcccttc	cagttgggaa	gactaaactg	gtttggccaa	tatctcccag	gattcccctg	300

<210> 134
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 134						
ggtacctggg	gcctctgact	gcgcctctgc	ctttgccgcc	tggctcctgg	tggttcaagt	60
tccagaaaagg	tccgaggggt	gtaaggctct	tagagaacct	agaggctcct	cctaggaacc	120
tttaaaaatg	atacctgcc	ctgcgttggg	gcctgtgaat	ttctttgcat	gtgagggggc	180
agctgtcagg	tggtcggctg	agccagggca	gacccaggag	cccagcacgc	catcgcgagg	240
gcctttctga	tggcacagtg	ctagccgttc	ctcctgcttc	tccgcccact	tggccatgtc	300

<210> 135
 <211> 282
 <212> DNA
 <213> Homo sapiens

<400> 135						
aaaaagcctg	ccttctgctc	cccagggttg	cttttcccag	gaggtgtgag	cctacctgga	60
ggaggcttag	gcacagggat	acctgctgga	ggtctgagcg	ttggttgagc	acctcctgtt	120
tgtaggatcc	tgtgccagag	cctgtgggga	ggtggagaga	ggctaggaga	catagccccc	180
acccttgagg	gatgagacag	ctccctgcag	gcaggctgtg	cccagtcata	tcaagcctac	240
agctgggctg	ctggctgcat	ggtctggagg	gcgggtgggga	gg		282

<210> 136
 <211> 260
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(260)
 <223> n = A,T,C or G

<400> 136
 agatacattg aactcttcag gagcacagca gctgaagttc agcaggtgct gaatcgattc 60
 tcctcgcccc ctctcattcc acttccaacc cctcccatta ttccaggtag tacctcagca 120
 atttggtggc cctacaaat gggtaaaact ggattacgcc cttcaaggct ttccttatgn 180
 agccccantg gaggacatcc tggatttcct gggggagtnn ncnacagatat tcgnctcatg 240
 gggnnccctg nnnnnnnntc 260

<210> 137
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 137
 ctggtgtcca tcagcacctc cgtgatcctc atgcagcacc tgetgcctgc cagctactgt 60
 gacctgctgc acaaggccgc cgcccatctg ggctgttggc agaagggtgga cccagcgctg 120
 tgctccaacg tgetgcagca cccgtggact gaagaatgca tgtggccgca gggcgtgctg 180
 gtgaagcaca gcaagaacgt ctacaaagcc gtaggccact acaacgtggc tatccctct 240
 gacgtctccc acttccgctt ccatttcttt ttcagcaaac cctgcggat cctcaacatc 300

<210> 138
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 138
 gacggcagtg ggggaagtgg cacaacctta caaggccaca ctctgtgcat cagcgacttg 60
 gactgggagg tggttgagcc tgacctctg gttaccagct ctgtggacac ctacatctac 120
 attctgtgaa gttctgggat taccgccagc ctcggaataa cctcaatatt ctcccttgcc 180
 aggtgcctgt ctggaaggcc agatacacac ctttcagcaa tggattgggtg actgtgatgg 240
 ttccccagct gcggagggaa aacagccttc tcctgtggaa tgtctttgac ttgaacaccc 300

<210> 139
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 139
 gatgcacggg cacttttgag gaccgagcgg ccactctgag taagatcatc caggtggcgg 60
 tggaactgaa ggattccatg ggggacctct attccttctc agctctcatg aaagccctgg 120
 aaatgccaca gatcacaagg ttagaaaaga cgtggactgc tctgcggcac cagtacaccc 180
 aaactgccat tctctatgag aaacagctga agcccttcag caaactcctg catgaaggca 240
 gagagtccac atgtgttccc ccaaacaatg tatcagtcct actgctgatg ccgcttgtga 300

<210> 140
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 140
 tgtaggcaca agattttctt gctagcggaa tgtgaaccaa aaagtgtaga ggccaatcag 60
 taaaaatatt caaagccagt tttgttgttt tcagcagtta gtaactatca gtagatgaat 120

atttactagg	aaacattggt	cttttaacca	ctttgggcat	gcttcttatt	tagtatgttc	180
atcatgattt	agtatcatga	cattcagcga	acattttattg	agtgcctact	gtgcactagg	240
gactagtaag	catgttaagt	ttgtaagctt	tgttgatttc	caccacaaac	ccataggacc	300

<210> 141

<211> 234

<212> DNA

<213> Homo sapiens

<400> 141

ccagatccta	aagctgtgtc	cttaatgaca	gcaaagttaa	gcacttcctt	tgtcctagag	60
acattttattc	attctaaaga	aaagcccacg	atgcttcagt	ggattgaact	gttgacgaaa	120
cagttttaata	atagtcaggc	agcttgtgag	tggtttttag	atcgtatggc	tgatgacgac	180
tggtggccaa	tgcatatact	aattaagtgc	cctaatacaa	ttgtgagaca	gatg	234

<210> 142

<211> 300

<212> DNA

<213> Homo sapiens

<400> 142

ggaatatcta	agcagacata	aatagtaaca	tcagggcact	tcagaatctt	catccgattt	60
atatcttcat	aggtccatgt	ttctattttc	aaatgtcctt	tatttcaaag	cagcatgtca	120
ctaaaaaaaa	gaaatgggca	atcatcattc	ctcaaaagat	acgtgcattt	ggttgggcaa	180
aatcatccag	gctaccagtt	ggataataaa	agtcgaaatg	tactatttga	ttttttccta	240
tgtttccaag	caagtatttc	tcaccagaca	ctgcccccat	catatccctt	ttcctcttct	300

<210> 143

<211> 300

<212> DNA

<213> Homo sapiens

<400> 143

aataccttta	aatccctggg	cagcaccgca	gggacagata	ttaccgtcaa	cagtgtgatt	60
ctacttccta	aaaaccctga	gcactttgtg	gtgtgcaaca	gatcaaacac	ggtgggtcatc	120
atgaacatgc	aggggcagat	tgtcagaagc	ttcagttctg	gtaaaagaga	aggtggggac	180
tttgtttgct	gtgccctctc	tccccgtggt	gaatggatct	actgtgtagg	ggaggacttt	240
gtgctctact	gtttcagtag	agtcactggc	aaactggaga	gaactttgac	agtgcacgag	300

<210> 144

<211> 300

<212> DNA

<213> Homo sapiens

<400> 144

ccaaaaggca	taaagataag	tgagggatgg	agttctggaa	gttgtgtatt	cacgtaagat	60
ttactttcag	gtattggcaa	aaatcacagc	tggagtgcag	attaagcatg	gtaggaggggt	120
ggtgattgga	gaaggaatgg	aggggaaaaa	ggaaaaacta	caaatcatgt	taaaactgtc	180
ctcattgagt	tttacaagta	atatactggt	cttatatacc	ctttcctcct	accgtgggaa	240
aatatcacta	acttgtaata	ggattaaatg	aggcaatacg	taagcttttt	agacattttc	300

<210> 145

<211> 300

<212> DNA

<213> Homo sapiens

<400> 145

gagaaaaactg	aaatcagatc	atacagatgt	tctgtactat	aatataaaaa	gaagacaagg	60
actgaaaaga	ttgagtgtag	aaattgacac	tctcagaagg	agaccaaaaa	tcggttcttc	120
atcccaaaga	cctattaaac	tcaaagaagc	atcatattca	aatgataatc	aaattatttt	180
gcagagtcct	tcttcaaagt	gaactaaaaa	agacatacat	aaatgtgtag	actttaaac	240
taaagatatt	aaattgacaa	atgctgggag	caagcttgac	catggaatta	aaagccttag	300

<210> 146

<211> 299

<212> DNA

<213> Homo sapiens

<400> 146

gcacgcccc	ttttctccgc	cacttcacca	gtttctgaaa	tccaacctcc	cagacttcac	60
aggaagatag	atattcttga	gataatgaaa	agtgatatct	tcgcatacca	taggagaaaa	120
ggctgaggta	tatatgattt	ttaactgtat	taggggtgta	tgaaccagtt	taaaaacgag	180
gttttattta	ctgtagagat	gaatgcaaat	cagaaccaat	gatcccttgg	cctacttagt	240
taaaaccagt	tcatacatcc	cttaggggtt	ttattattat	tattattatt	attacagtt	299

<210> 147

<211> 300

<212> DNA

<213> Homo sapiens

<400> 147

gcacccagcc	ggcttcatct	cttcttgaaa	tcacttttat	accattctat	gtggttctca	60
ccatgagctt	gagtggtggg	ctaaagtgcc	tctccctget	ttcagcttcc	tgctgggaac	120
tcactctctc	aagttccttc	cagcaccacc	ccatagagtt	cccatcactc	cacactgtcc	180
agtgacaact	cccaacatgg	aagatctgct	agttctacag	ggtgctctct	ggctgcccc	240
gtaacatgtg	tttttaaat	tttcacatgc	atgtttgacc	ccgactcccc	gaagtcaggt	300

<210> 148

<211> 300

<212> DNA

<213> Homo sapiens

<400> 148

ccggctaatt	ttttgtattt	ttagtagaga	tggggtttca	ccatgttacc	caggatggtc	60
tcaatatcct	gagttcatga	tccaccacc	ttggcctccc	aaagtgctgg	gattacaggc	120
gtgagccacc	acaccagcc	agttttccta	ttttctgaat	tcagaattga	cttctctggg	180
aaaactggag	atgagaatct	gcccagtgc	ctgctgtcca	gtcacgcct	tttgaatttt	240
agttttggca	ccaggagtac	cgtttagctt	ccccttcttc	tggccattt	ggtcatttc	300

<210> 149

<211> 296

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (296)

<223> n = A,T,C or G

<400> 149

ctcgcagctg	tcagagttgg	tcctggctgt	ggcgctccaa	cagcttgagg	gaaaaagatt	60
ctggctaacc	acctcatcta	ctactcaagt	tctttctgaa	ggagggattt	cttcagttaa	120

ccatggacag	tgagggtttct	caccacagta	acttgagtcc	agggttgaggg	ggagacagat	180
ctgtggtaaa	tctntgantn	gnncatcnta	ntgantgnng	aaccnctcag	gactcnttat	240
gnaanganct	tgtgtgtnaa	agaaccnntg	gagcngatct	ggagacctat	atgtgt	296

<210> 150
 <211> 141
 <212> DNA
 <213> Homo sapiens

<400> 150						
ggaaggacta	cggatccgca	ggaagaggca	gttggggggcc	agggggcccag	tagaggaggc	60
tgagctcctt	ccaactcctc	agaacctcca	ctctatggat	ctggacctct	ggattcggct	120
ttctccctgg	gcactgcctt	c				141

<210> 151
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 151						
ccgagatggt	gacactgcac	tccagcctgg	ctgatagagc	gagactccat	ctataaaaag	60
taaaaaagaa	agtcttcagt	gaaaggagat	tcgccctatc	agctatgaaa	gcacagaggg	120
gaggaacatg	gagtaggggc	tgcttgcagt	cagatcctgc	cctcacaacc	ttgccagggg	180
aacaggctcg	tgggtacaaa	ggttgtgtgc	ctcaacttcc	tcatggaagc	acgtgagatt	240
attttataac	catagagtgg	agacagtcag	tatgaccacc	aaaccaggga	gccatatatt	300

<210> 152
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 152						
gtggttgtgc	cttttcccag	ctcgaacccc	tcaggcttct	gcctgggtgtg	aagttcagat	60
tcctcaggct	gagctgctct	tgctcagtt	tcccagcctg	accaaaggaa	gcagggtgggg	120
cctctgggat	aaagagcgtg	tgctggccct	tcctgtgtgtg	ccccgcagac	acacactcca	180
ccccactccc	catgccccag	ggcccaccag	gctgacttct	ccgctgcttc	tgacgggctc	240
ccttgccctc	tgggttccag	tcagccagca	ggaggcacca	gcaggaatcg	gagggtgaga	300

<210> 153
 <211> 257
 <212> DNA
 <213> Homo sapiens

<400> 153						
cccctgttta	cagcaataag	cacgtcctcc	tccccactc	ccacttccag	gattgtgggt	60
tggattgaaa	ccaagtttac	aagtagacac	ccctgggggg	gcgggcagtg	gacaaggatg	120
gcaaggggtg	ggcattgggg	tgccaggcag	gcatgtacag	actctatatc	tctatatata	180
atgtacagac	agacagagtc	ccttccctct	ttaacccccct	gacctttctt	gacttcccct	240
ttagcttttag	acccctt					257

<210> 154
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 154

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gttatcccggaagttctcaattcttcctgaa gacctagagg agctctacga cttattcaag      60
agagaacata tgatgagctg ttactgggag cagcccaggc ccatggcctc acgccacgac      120
cccagccggc cctatgctga gcagtaccgc atagacgccc ggcagtttgc acacctgttt      180
cagctagtct cgccttggac ctgcggggcc cacacggaga tcctcgccga aaggacgttc      240
aggctcttgg atgacaacat ggaccagctc atcgagtcca aagcgtttgt gagctgcctc      300

```

```

<210> 155
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 155
aaagaaagcagcagagaaaa aagggagtggtctcgtagcc caagaagacg caaatccaga      60
tctccttccc ctagaagacg atcttccccct gtcaggagag agagaaagcg cagtcattct      120
cgatctcccc gtcacagaac caagagccgg agtccttccc ctgctccaga aaagaaggaa      180
aaaaactcca gagtcccag aaccttcagt gaaagtaaaa gaaccttcag tacaagaggc      240
tacttctact agtgacattc tgaaagtccc caaacctgaa cctataccag agcctaaaga      300

```

```

<210> 156
<211> 274
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(274)
<223> n = A,T,C or G

```

```

<400> 156
catcacggtt ttacccagtg gtgaaagaag gacggacact ggatgccaaag atgcctcgaa      60
aaagaaagac aagacacagt tcaaaccac ccttgagag ccatgtgggc tgggtgatgg      120
attcccgatga gcacaggccc agtactgctt ccatnatctc nannctntta tatggnatgc      180
ttactttnnn aannattnnn tngttntntt tngnatagct cttnggcttn nttntggnat      240
tgctntntnt tntntnggtt tgtnttgttt tttt      274

```

```

<210> 157
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 157
gcagatttgg ttccatacct cttaaaatta ctggaaggca ttggccttga aaacctggac      60
agcccagcag ccactaaggc tcagattggt aaagctctca aggcaatgac tcgaagtttg      120
cagtatggag aacaggtgaa tgaaatcctg tgccgttctt cagtctggag tgcttcaaaa      180
gatcagaaac atgatttggt catttctgag tcacaaacag caggatacct cacaggacct      240
ggagtttgct gctaccttac cgcaggatca tctacatcag tcatgtctaa cctgccacct      300

```

```

<210> 158
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

```

<400> 158

cctacccatg	tggtcccgaa	ggctgggcac	tgagctccca	caccagcat	acagctcatt	60
actcacacac	cctctgccgt	ctacagagta	attagtagag	gaacacgccc	ttttctctgg	120
agatttccgc	cccagtcgta	ccaactcttt	aacaaggaac	aaaagtcaac	aacttcaagt	180
ttctgtgag	gatgaaatcc	agagtttcta	atgactaatc	tccatcgtca	aaagaaaagg	240
caaacctcag	ccccttcaga	cagctaattgc	caggagaagt	tcatgantat	tnnaagaaa	300

<210> 159

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(300)

<223> n = A,T,C or G

<400> 159

ccgactagta	acatatatca	tagcttccaa	agtatttggt	tacagaatac	cacagtgact	60
aattaccaga	acttttctta	ttctctctga	gcaaaggaac	ctcatgggag	aaaaaaaaata	120
taggtcattt	ttaatgtaag	ggagttgcta	ggattggagg	ttaagacagc	tatttacact	180
tcatgnangg	antnctgan	gacctcacia	ngngttntct	aggnatagag	aaaggtgcaa	240
atcttcttat	cagaaacgca	ttataaatag	aaaagaaact	cttaaaagag	attcttcaaa	300

<210> 160

<211> 300

<212> DNA

<213> Homo sapiens

<400> 160

ggcacagtc	tctctgttca	tagaaacacc	tgccagtgtc	aaggattcca	gtcaggtgtc	60
tatcccaact	ggtcaggag	agaagggcag	accattctc	aaagaccacc	atgtccaagg	120
tctgacagct	ccccactggc	tgccccca	ggggctttag	gctgggtctg	gtcatgggga	180
agcgtccctc	ttatcgtgg	tctgtgttct	cctgggattt	ggtatctatg	ttggtacgac	240
tcctggcctt	ttatctaaag	gactttggct	tttgtaaact	acaagccaat	aatagacttt	300

<210> 161

<211> 288

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(288)

<223> n = A,T,C or G

<400> 161

gctggaggca	ttcgaaagg	actcccgatg	tggtgggcgg	ggctgaaccc	tgtggcttct	60
gaggtccctg	ccagccagag	acttgtgtga	gtctttgaat	ggcttcacat	gaacaaaaga	120
gcatttctgt	cacctttcct	ctagtttttt	ncatcncacc	natctnngag	ctgaggcnnn	180
gtntttctc	nnattntatt	tctntntnt	tttntctctt	ttttntctna	tattttntn	240
tgttacannt	tnnnnaattt	cntntttttt	tttnntctt	ctatcttt		288

<210> 162

<211> 293

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(293)

<223> n = A,T,C or G

<400> 162

ctcaaaagtc	agcacaacaa	gtggaaactg	gccaaaccagt	atgagaaatt	ccacagtcca	60
agggaaagag	aagagtatag	tgactgaggt	gggtctctct	gtccaacatg	caggcagcac	120
tccctcatcc	tgctcagtga	gagaattcag	ggggaataga	aaagctgctg	agagttggta	180
aagaggatgg	tcgagtgaga	tggtgttgac	ctccctggat	cttatgttac	tacatcctgg	240
acctcnagag	gntcatccaa	nctttttgaa	agctnatctt	cttgntcggg	taa	293

<210> 163

<211> 300

<212> DNA

<213> Homo sapiens

<400> 163

gtggcgagct	ctgagttcac	tacagcctcc	acctcccagg	ttcaagagat	tctcctgcct	60
caacctcccg	agtagctggg	actacagttg	aaaaagatca	tctagcaaag	cttttttccc	120
agctacatat	aaggaatttg	aaagtcacat	aaaatgggta	agaaaatgtg	ccaagattac	180
ctcagtaatt	ctggctctgtg	ttctcaggag	accctggaaa	taaacaatgt	gtcttctgtg	240
gcttcagcgt	cacctagtgc	aggctgccat	tcaacaaaacg	cattgtcaac	agtcaaccaa	300

<210> 164

<211> 265

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(265)

<223> n = A,T,C or G

<400> 164

gccagattga	ccaagcgcca	gagacaaaat	gtggcacaac	gagaacccca	gccctgtcca	60
gggtggctccg	cgcccagggc	ccaggcttag	cagtgtctcc	tgccctatct	tttggaaatt	120
cttgctttta	tggtnttnan	ctctttangc	cctnaatanc	nanngtcttg	ntngnggttn	180
cttntcnttg	ctgctnttnt	tttannntcn	nnatntnnnt	ttngngctaga	gctntngcta	240
ntnatatnnt	tnnnnttnt	gtttt				265

<210> 165

<211> 265

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(265)

<223> n = A,T,C or G

<400> 165

atcaggactg	tgtatgtctg	agcacatgtg	gctctgtttg	ggattacgtg	tttgtctgtg	60
aatgtgtgtg	tgtgttgagg	ggttgtctat	tgtgtgtggc	tgtatagggt	gtctgtagat	120

caagatgtgt atacagctgc ttctgctatt gctggtttgg gggaggtgnc tganaanctg	180
nnactgnnta tcntgannna agangggngn anggcncacc cctgntnctg ntcantntta	240
accntgntcn nnatntngnn ctctg	265

<210> 166
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 166	
gggttgagaa ccaagggagt cagatcaacc agtcagatca accatgtggc tgcaagacag	60
ggcagagagg ggacgtcagc cccaggcccc tccacacctc atgtgcagtt ctacagcacg	120
ggcacaggca ctgcctacac agagccaacc tctgagccca gacccctcca ctgtaaaatg	180
agaataagca ctcaggatgg ttgtgaggat tcactaacag actgagaaga aatgggtgacc	240
taggctggca catgggacac tccccaagat gctccttttt catttccctc aagcccagag	300

<210> 167
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 167	
accaactgat gaccaccag cctaactctgg cccacaacca tgttctgttc ggtccatggt	60
ctatttataaa gtatcttgaa ttggttgcca tcatttataac tcaatcagac tttgaaggca	120
tggtccagcc acacagggcc tacattccca catggcaact atgaaagggc tccagcccag	180
caggggctgt cccggctcct gccaccccca cttcctgtgc ctcagatctg gcccctgcta	240
cgtaagataa ggacagctac aggtccctct gagcctaaac ccacctaacc ggactaacat	300

<210> 168
 <211> 246
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(246)
 <223> n = A,T,C or G

<400> 168	
cctgatcctg ccaacagcag ttcaggccag cccacatgg agcaagtacc tgaggcccag	60
ccccctgggg acttgcccat cctggaagtg gaggagatgg agccccgcc gggtatggag	120
tccttcagc cgcgccaggc taccgccccg cttgactctg ggtgnganan gnantttttg	180
tttttatctt angaattggg ncnttttgtg nnnnaattgn ntnannttt ttntntnnnn	240
ntttnt	246

<210> 169
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 169	
gcgaagcagg cttttgctca tgtatccaag ttgctgtcac agtgtaaatt tgatctgttg	60
gaagaacttg tggccaaaga ggtgctacat gcattgaaag aaaagggttac ttcactacct	120
gacaaccata aaaatgccct tgctgctaac atagatgaaa ttgtatttac atcaacagga	180
gacatctcca tttactatga tgagaaagga aggaagtttg ttaacatcct gatgtgcttt	240
tggtatctaa ccagtgccaa catccccagt gaaactttaa gaggagccag tgtattccag	300

<210> 170
 <211> 274
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(274)
 <223> n = A,T,C or G

<400> 170
 aagagacgag cggccagac aggcctggga aggccctct gcccgcgcag gggtgaaaag 60
 caaagctgga aggattcgga gagggttggg gccgtcttcc tcatccttcc ttttctcggg 120
 gctcccgtgg gtaggtgcac ttggagcaac cgggcctgcg ggggtgtgcg ggggtggagg 180
 tgnggaggnn atcgnnnng gcncnccng gtacnctcnc nncnnncnc nttnncnnc 240
 ttctcnntnt cncncnnnt ccnnncnctc cctc 274

<210> 171
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 171
 agaagactct tcccctgcc aaaaaactcg tagatgccag agacaggagt cgaaaaagat 60
 gcctgtggct ggaggaaaag ctaataagga caggacagaa gacaagcaag atgaatctgt 120
 gaaggccttg ctgttaaagg gcaaagctcc tgtggacca gagtgtacag ccaagggtgg 180
 gaaggctcat gtgtattgtg aaggaaatga tgtctatgat gtcattgctaa atcagaccaa 240
 tctccagttc aacaacaaca agtactatct gattcagcta ttagaagatg atgccagag 300

<210> 172
 <211> 293
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(293)
 <223> n = A,T,C or G

<400> 172
 gatggccaaa aatatagaaa aggatacctt gcatgtcctg tgaaatgcaa aggaattcta 60
 aagtgtcatt atgagttacc tcatggaaga aagcaaaagg tgaatctatc tagagtttgt 120
 ggttctgact cacaagagac tgatgttcat gctgaaggac gagtgtgaca ggtggaagga 180
 tagagcaccg agaccacact cttaaaggta ggaatctatg ggaactattc agggagatga 240
 aagcatggaa tgaactgaag cttgcagact cgttgagtan naagcgcgtt tta 293

<210> 173
 <211> 271
 <212> DNA
 <213> Homo sapiens

<400> 173
 aataccctct tcccttgcaa tggcataggg acatctagaa tatagagaag acagagacaa 60
 tggaggaaga gtaaaagaa tgactatatg cttcttcat ttcactgcaa ggaaggccaa 120
 gcagattttt gaatgaggtg tgagattgct gttaaattgg actggcctgg acattttaat 180
 cccctaaata gaggtgcaat gattaaagtg agatttgtca ctaaaattta tggatatctg 240

ccaagattca ggagtgatgt tgggaggaga t

271

<210> 174
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 174
 cctaagcagg catctgcagc atcctatttc cagaaaagaa attctcaaac taataaaact 60
 gaggaagtga aagaagaaaa tcttaaaaat gtattatctg aaaccccagc tatatgtcct 120
 cctcaaaaaca ctgaaaacca aaggccaaaag accgggttcc agatgtggtt agaagaaaat 180
 agaagtaata ttttgtctga caatcctgac ttttcagatg aagcagacat aataaaaagaa 240
 ggaatgattc gatttagagt attgtcaact gaagaaagaa aggtgtgggc taacaaagcc 300

<210> 175
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 175
 aagagacagc ctctctcttc tgtctcagaa gctctgtgtt tgggaaactt tgagcccagt 60
 gagtagcagg gtctgcagtg tgagtaccag gtttccctgg caatccaggt ctctcttgag 120
 gaagcattct gacttcccac tgaccacgga aggcattgtca gcttcatgcc tggggctaga 180
 gttctgataa tcggggctga ggggtgaaaa agaaaatcca gtcaggacag acagtgggga 240
 gacaggcccc tgccctttat ttgctgggac aatcaggggac tcccagaaaag gaaggagaat 300

<210> 176
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 176
 atctgttcag ttctggcttg aaaatgtgtg tgccatactg tgacccacgg gcagccccctc 60
 ctctcttact gtgtcaggtg gaccagggtc acctctgttc tgccagcgtt tgagattcta 120
 ggattctacg gccggcacga atggcatggg agggttctct gcacgggacg gcataacggc 180
 atgccatcct tcaggctggc aggagcctgc gcagggtgtg caaaatcttg aaacagcctg 240
 tgctctgcct ggcttttcac tttcctatct aatataagaa agcacctttt tttctgcttt 300

<210> 177
 <211> 268
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(268)
 <223> n = A,T,C or G

<400> 177
 caaagtgtga ctttgcctag agtttactca acaatgggca tgtcatctag agttcccaag 60
 atttttacca tcttgaaca gcagtcatag gagaatatgc ctcaatcaaa atcaggctaa 120
 aaatttgttt caattctgct tgtgagctgg gaccttangn ctttctgntc tctattntn 180
 ttttctntn nnntctntn cattnegtna ntncnnnnn nnnantntc nnnccntnt 240
 tctnnaatnt tctntntnat ntaatta 268

<210> 178

<211> 300
 <212> DNA
 <213> Homo sapiens

<400> 178
 agcaaatggt gctggagtgc ggtggctctt aagagtctcc acagtttgct agtttgaatc 60
 agggactgga tttgttgtaa tttttttgag ttttatgggt tgtgactcaa tatatccttc 120
 cttattggat acattgaagt ctaactgaga atcgatattt gttccttgga cttgagtgtg 180
 aaggaaagag aagctttaat tactactaca acatgacctc aaagtttttc aagtactcaa 240
 tgttgtgttt tctttttaat ggggctgttt gtgaagatga ggcattagga tgttgtgatt 300

<210> 179
 <211> 270
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(270)
 <223> n = A,T,C or G

<400> 179
 caacaaaagt cgtgagtgat cagtgaagc tctgctgtga aggtgacatt tgataactgg 60
 ggaagactgt tcaggtaatg ggggcacatg tgtgtgcaga ggctgaaga aggtgctggt 120
 gtggcaagaa tagccaagag actcatcact ggacccgatg gggagaggag taaaagaaaa 180
 ggtccaagaa ttggaagaga tggcgggcag gtcattgtagg gccttacaaa naatttgact 240
 ttggctgaga gggagccgt taaaagggtg 270

<210> 180
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 180
 atcagatggg gttgttttta ttggtatcca gttatgtttg cttgtctttc cagatggggc 60
 cagttattag ccatacatag tacattgata cacctccacc agcgggtgag gaaatgatgg 120
 aaaaaggagt aagaagtggc cattcgtttt aatcattcct cctggatttg tcttcagtcc 180
 ccaactgcc aagtaggatgt gtccatgtat aaatgtgtgg ggcattgacta aagtaccacg 240
 tagctgttct ttatatttat ttacctagaa agatctggca aagaactcaa agaaaattgt 300

<210> 181
 <211> 260
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(260)
 <223> n = A,T,C or G

<400> 181
 gttggcttcc ccgggagagg agtatgagga ttaaaaaatat tcagaaacaa acaaaagaac 60
 acaaaaatgc aaacacatgg tagggaatta ctactgctta ttctcaacag taccacagaa 120
 ccagtgtttg agtgctggca ccatatgcaa catggggcat ccgggctgga gtgatccagc 180
 tttttagatt cattgtatga ntcattgntaa ggnnnaggag tcttnnnnta nncnannang 240
 nnnnennntn ttnnnnttacc 260

<210> 182
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 182
 ccttggtgca tgggcctgga gccctggggg gaactgtggg aactctgagc cgtctggccc 60
 tgagggctca gcctcagcct ccacatctgc ctgttgcggt cctggctgtg gggctctcagg 120
 ataaggacat agccccctgg aagctgggaa ggccccacat caggccttgc agtttctaac 180
 ccaggagggtg gccgacagca gtgcgttggg gctgcctgtc cctgcacacg aggccctggg 240
 ggggtgaatgg aggcctctccc tgtttttgtt agcattggag gcctgagcag ggctaacgcc 300

<210> 183
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 183
 agaaggactt cctaattccat gaaaaccatg taaagtttga tcatatcatt agctattggt 60
 cagacctatt ttgttgtttg agaaaaacag acacatggggg aaaatgggtga ggtgaggtag 120
 tgtgttgagg agctggaagt gaggagctct taattttttc ctctgagac tgagtccgga 180
 agaagagtag accatggcat ggaggtggga gagacaagga cagagttggg gaggtcactg 240
 cctcacactt ctgctcacac cgctgggtct ggtggaaact caaagtttgt atctaaaaat 300

<210> 184
 <211> 265
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1) ... (265)
 <223> n = A,T,C or G

<400> 184
 gtccctccctc gtgggcctcc caaagtgctg ggattacagg cgtgggctcc cgtgaccagc 60
 ctggaacgtg ctgatgagcc tctttttctc ctgaaacccc ggtgggaaca gatgggtgat 120
 gctttcaaaa cgcattgaan ntgnacttna agacntgcgg antgntntnn gangantttt 180
 tgagattttt tttaanatan ntntttttan ntttnannnn ccnttggan cagatngngt 240
 ttntntnaaa nttnattnaa tctgt 265

<210> 185
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 185
 aaagaatgaa atgtccaaac ctttactgac aaattatacc tgacagcaga atacaccac 60
 atctactaag aggcctccat ggtttttact gctatcactt tgattactcc aataatgaaa 120
 ctattgaatc tgtttcttag aagccaaggt aagaaagcag agaatagtct gccattgaac 180
 tgatagcatc tgttttataa ttatctgggtg acttttctag agaagatgta taaaggctgt 240
 gttgtttcat gtacaccaca cttgaatgat tgcttcttga gttggattgt actccagtta 300

<210> 186
 <211> 300
 <212> DNA

<213> Homo sapiens

<400> 186

cttttgtaag	attttggtcc	ctcagcttga	ggaacaactt	catcttcaac	tttttatttc	60
tccctgatgt	tacagtttgg	tagatttcaa	actggaatag	ctagcatgtg	cttgctaaat	120
aattttatgc	cagcettatc	ctgtatccta	gctgttctta	acagcaggta	caaaaatgcc	180
tgtttttcag	caaggttgaa	attgggaatg	tccttttgaa	tcagaagaag	ataggccata	240
gactcatctc	ccagcacaaa	ggggcattct	atgaaatggt	actggcccta	ggaggatttc	300

<210> 187

<211> 300

<212> DNA

<213> Homo sapiens

<400> 187

gcagactcca	ggttaaaagc	gcttaatgca	acattcagag	tgaaaaaccc	agacaagaga	60
tttactgacc	ttaagcacta	tagtgatgaa	ctgcagtctg	tcatctcaca	tcttcttcga	120
gtcagagcta	gagtagcaga	tcgactctat	ggtgtatata	aagtacatgg	gaattatggt	180
cgagttttca	gtgaatggag	tgccatagaa	aaagaaatgg	gtgatggact	gcagagtgtc	240
ggatcatcata	tggatgtgta	tgcatcttct	attgatgata	ttttggaaga	tgaagaacat	300

<210> 188

<211> 300

<212> DNA

<213> Homo sapiens

<400> 188

gtcctccaag	acctgattca	gcctttcaca	cggtggtgcc	actggtccca	gggtgcgccg	60
gccccatctc	ctcagggcag	tgggtgggga	agactcacca	ctacccttaa	aatgggaaga	120
gaccaggggt	ccaaagtgc	ccccagtggg	ggcttcacac	gccagggagt	acatgagatg	180
atttctgtgg	tccttgatac	acagctttca	ttttgagaga	cacaattatt	tgagtatcta	240
gtaattcaag	cctgggattc	aaagatatca	tttaagatga	aactgaatat	ttctcttctg	300

<210> 189

<211> 300

<212> DNA

<213> Homo sapiens

<400> 189

cctgaactca	ttaccttcaa	gtatggaaat	agcagtgtct	caggaataga	aatcttggca	60
atcgaaaggt	atttgattcc	aaatgcaggg	gatgcaacta	aagccataaa	acagcagatc	120
atgaaagtgt	tggatgtctt	ggaaagttaa	tataaaagaa	aattatataa	aaagaaatta	180
agacaacca	gagaaacatg	gacatatacc	tcctgactga	atactaactg	gagacctttc	240
atttgctcat	ggggctgtct	aaatagcagg	tctaagaaag	tgtaaattat	tataatcaat	300

<210> 190

<211> 300

<212> DNA

<213> Homo sapiens

<400> 190

gtggagatga	ccccgagaa	gttcagtgtc	ttaatggaga	agctctgtaa	aaaggggctg	60
gcagccacca	cctccatggc	ctatgccaa	ctcatgtga	cagtgatgac	caagtatcag	120
gctaaccatca	ctgagaccca	gaggctgggc	ctggctatgg	ccctagaacc	taacaccacc	180
ttcctgagga	agtccttgaa	ggccgccttg	aaacatttgg	gcccctgacc	atccaccaag	240
ggaccaccct	cttgggtgtc	catcaccagc	ttcctgaagg	gcatttcttt	cttcaccacc	300

<210> 191
 <211> 266
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1) ... (266)
 <223> n = A,T,C or G

<400> 191
 gacaagcgct ggagccgcag ccctcagact ggcacgggaa cgccagcggtt ggggtgttcag 60
 attccacgcg tatgtctggg ctcaactaca gcatggccga gtgtctgcag tgctggctct 120
 gacccttcca gagcagcagt ggacagatga gataagactg tttcagaaac naanatggnc 180
 acagccttcc taacangcag gtcactctggc catgtctgta tngtnacttg ttaaaangct 240
 tcnngtnatat tgattgatna natatt 266

<210> 192
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 192
 tcctggatca gtttctttgt catgtagcca agactggaga aacaatgatt cagtgggtccc 60
 aatttaaagg ctattttatt ttcaaactgg agaaagtgat ggatgatttc agaacttcag 120
 ctctgagcc aagaggctct cccaacccta atgtcgaata tattcccttt gatgaaatga 180
 aggaaagaat actgaaaatt gtcactggat ttaatgggtat cccttttact attcagcgac 240
 tatgtgaatt gttaacagat ccaaggagaa actatacagg aacagacaaa tttctcagag 300

<210> 193
 <211> 281
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1) ... (281)
 <223> n = A,T,C or G

<400> 193
 cacactataa atggaagaaa aaaattaata gcttctgttt aatctgatga atgtggcttc 60
 ttttgccttc actatattgc cctgtgaagc tgctctttgg tggntatttt atngnactgn 120
 ctgntnttat tttgcttatt gcctttnttn nnnttgnctt tatkncattt tntngtnttt 180
 ttnttcnntt gnttacnntt tnnnannntt cntnngttn atttnnnnngn ntcttntntt 240
 aanncngngg antntttttt tctnnngnng annntttctt t 281

<210> 194
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 194
 tgattgatga gggctgtcgg ccaggaactg atcgaggctt gttaattgca tttgtcaaatt 60
 gcagggaaat tgggaattag tgaaatcgga gaaggggggtt tggaaaacaa atgactcgtg 120
 cctaaggaaa ttttttgcag gaaagtatct caggagcccc tgcagtcagg gagctgctgg 180
 tgtggactca gactacatgg ttgaaatagg caggagctgg gcggggcaca gtggctcagg 240

cttgtaatcc cagcaccagc actttgggag acggaggcag gcagatcact tgatgccagg 300

<210> 195
 <211> 278
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(278)
 <223> n = A,T,C or G

<400> 195
 gttaacagtg atgatgacag cgtgctgctg gtacactgta tctcaggctg ggatcggacc 60
 cccctcttca tctcctcct gcgcctttcc ttgtgggctg atgggctcat tcncacgtnc 120
 ctgannccca ntgagatcct ntacctcct gtgggctatg acgggttcct cttctgcacn 180
 tgnnggtnt tctnactntt attttntnn ttagtnnttt nctantttnt gntatntnt 240
 nntatntnt ataactntn nntnnnttc tattattt 278

<210> 196
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 196
 agagccctct gtttgacagt catggaggaa gcagcaggga aaacctggcg ctgcaaaatg 60
 tgcaggctcg aatacggatg gtctcgcct atctgtttgc tcagttgagc ctctgggtctc 120
 ggggtgtcca cgggtgggctc ctgctgctgg gatccgcca cgtggatgag agtctcctgg 180
 gctacctgac caagtacgac tgctccagtg cggacatcaa ccccataggc gggatcagca 240
 agacggacct cagggccttc gtccagttct gcattccagc cttccagctt cctgccctgc 300

<210> 197
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 197
 cttgggcaag ctctttatcc taagattcct cagtgcgcct tatagagttg ctgcgagaat 60
 tacatttggt catgatgtca agtgtctggt atgtagctaa tgcttattga acacatagta 120
 atttattgaa taattgtcat gatcactgga tgagatatag ccactgtgga ggtaggcaca 180
 ccagggtttt agaggettg gatcttgcaa caggattttc ctcttgctc tccaaactgc 240
 cctttgcccc gatggcttca gcatttttt gcattccctg ttccttggtt ggtgaacacc 300

<210> 198
 <211> 294
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(294)
 <223> n = A,T,C or G

<400> 198
 ccactaacag aactgaagaa aattctaaac gaaatggcaa aaagaaaatt cattttttgg 60
 ctctctgctc tgaagaaccc ttgttataac gtgtttatag catctttggt agatggagag 120

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agatcttttta tgacaaagag tgtgatacaa tttttttaat gcatataggg cattgttctt      180
cctagagcat atttacataa attatctcat ttggaaaaca caacaacctt atacttgtgt      240
ctgcattcgc ttgggcattt taaaggctcg aagaanttga ancttttcaa gagt          294

```

<210> 199

<211> 263

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (263)

<223> n = A,T,C or G

<400> 199

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agttccctca cttctctgca cacctattcc cagattccat ccagagcaaa gctgatgttt      60
atcgtctcat tgtacttagg ctttcgtact ttaaaaaatt atgacttttt aaaaataagc      120
cttcagcaga cagaagtga gaaatttagc ctgggttgcc tcagcaacaa agtctgcggt      180
tcctaagagc cacatgttgg ggaagcgggg tgnntnnnnan ntgttgngga ngngnnnnnn      240
nnnnngnnnn nggnnnnnng nnt          263

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<210> 200

<211> 276

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (276)

<223> n = A,T,C or G

<400> 200

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cctctccttc catgtcacia actaaccac atcaccattt tgcaaacatg catccttggg      60
ctcaagtgg cctaacaagg aaattgaaca gatccattga aaagataatt gaaagcacat      120
atcctcttgg atcagaagga catttagcat ggtacctctg catcattcat gtgttcattc      180
attcatttca cagatccttc aagaatacct tctatggcct agacactgtt gcatgtgaag      240
nccacngana accactattn caaneggac cccctt          276

```

<210> 201

<211> 300

<212> DNA

<213> Homo sapiens

<400> 201

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ggggagtaac agaagcctgg atacaattac tctatcagga gatgaaaggg actttgggag      60
actgaatgtg aaattgtttt ataattcttc agtagaacag atctggatca cagttttaca      120
gtgcagagat ttaagttggc cctctagtta tggagacact cctactgttt ctataaaaagg      180
aatacttaca ttgcccaaac cagtgcattt caaatcttca gccaaaggaag gttccaacgc      240
tattgaattt atggaaacgt ttgtatttgc tattaacctt caaaatctac aaactgtaag      300

```

<210> 202

<211> 300

<212> DNA

<213> Homo sapiens

<400> 202


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atgtgcctgt aatcccagct actcgggagg ctgaggcagg agaatcgctt gaacctggga      60
ggcagagggtt gcagtgaact gagaccatgc cactgtactc cagcctgggc aatagagcga      120
gattctgtct cccaaaaaaa caaaaaacaa caacaaaact tgctaccacc cagggatttt      180
ctgctattta aaagggtgaat ttcttttctg gtactaaact gtagctgctt aacttagtaa      240
aggctgtgtt tggccaggcc tgtgccagag gctcacctgg agtgctccac ccactggcag      300

```

```

<210> 203
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 203
aagaactcca tgttccactt agaggcttca gagtgcagtg ccaggggtgc cttcccaaaa      60
gtccctccctg cctgggtgga gcgtagacag ctgagcagcc cagggggggc gttggagcca      120
gccttggttt tgttgggtaa ggatgttaga agaggggcga agacccatag ccactggtgt      180
gaaggggtctg ctcttgaccg aaggctgcct ccctctgggt gcagaccagg caggtggtcc      240
cagtcacggt gccctggggc cactgggtct gtctgccctc aggtctccact agacacacct      300

```

```

<210> 204
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 204
ttttgcacaa gacaggttgc tgaggggtcg gcaagcatct gacttgccca atccccctgga      60
tatggtgagc cccgccatgc ttttattctg tatcgctttt gtctttattg ctgctttcaa      120
catttacgtt tgggtacagt taactatttt cggagtgtgg tgattgaaga caatttcac      180
atcccactgt actttttttt tgagagggag ttctactctt gttgccagg ctggagtga      240
atggcacgat cttggctcac tgcaacctct gcctctctgg ttcaagcaat tctcctgcct      300

```

```

<210> 205
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 205
gccatttctt ctggccttta caaaaaggca ttttgttata ctacagtgtg aacctcattt      60
ttttcactcc aaaaggtagc agccccctct cttcccaccc tggacctgcc ttctactccc      120
tgggcacaga gcgcatggtt ccattgatgt ttggtttatt ccaggatcca aggagctggt      180
tctgctggtt ggaccaaacc tcgtgagcca gccacccttg acccaaatga ggagagctct      240
gattctccca tccggggagca gtgatgtcaa acttctgctg ctggggaaat ctcatcagca      300

```

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<210> 206
<211> 300
<212> DNA
<213> Homo sapiens

```

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<400> 206
ctgacttcaa ctgcaatggt cctgtcaaca cacagggatt ctacaggggc tccccctgggt      60
gcgtcatgga tgctgttctg cgccacggct gtgaggcagc cttcgtgagc ctgctggtag      120
aatttggagc caacctgaat ctagtgaagt gggaatcgct gggcccagag tcgagaggaa      180
gaagaaaagt ggacctgag gccttgagg tctttaaaga ggccagaagt gttcccagaa      240
ccttgctgtg tctgtgccgt gtggctgtga gaagagctct tggcaaacac cggcttcac      300

```

```

<210> 207
<211> 300

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<212> DNA

<213> Homo sapiens

<400> 207

ctcaaagaaa	tccaagacag	acaactcttc	tcttagttca	ccactaaatc	ctaagttatg	60
gtgtcacgta	cacttgaaga	agtcattgag	tggtctcgcca	ctcaaagtga	agaactcaaa	120
gaattccaaa	tctcctgaag	aacatctaga	agaaatgatg	aagatgatgt	cgcccaataa	180
gctgcacact	aactttcaca	ttcctaaaaa	aggcccacct	gccaagaaac	caggggaagca	240
cagtgacaag	cctttgaagg	caaagggcag	aagcaaaggc	atcctgaatg	gacagaaatc	300

<210> 208

<211> 300

<212> DNA

<213> Homo sapiens

<400> 208

gtaaggcctg	ccttttacac	accagttgtg	tgtttgttag	tggtctgctgg	atgccagttcc	60
acaccctcaa	acacctcaca	gtcccaaacg	gggtgctcct	acagggtccca	gggtcctggt	120
agtgaagaa	aggcagttcc	aggaagtctt	cctctagcct	tcatgacagg	aagtagttaa	180
tcctctggga	aatagacttg	cagccctggg	aagaaaagag	ttgttcctcc	ttggggacat	240
acaccatcat	ctgggctatt	tcatccagtg	tctcttcttt	atacaggagc	tcctgggtca	300

<210> 209

<211> 265

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(265)

<223> n = A,T,C or G

<400> 209

agtggtctgag	tggaaggcgcc	cagacctggg	caggcagcag	gctcaggccc	acaccttggtg	60
atttttgaaa	ccaaagccca	gaagatgatg	tttactttct	tctccctggc	tctgccccttc	120
ttactgcaaa	ccatgctgtg	ccttagggcc	cttctcatag	ctgttcctca	tggccatgac	180
tggaacaggg	atgcaacctc	tttctacaca	agcacagtta	gttggggtgaa	gtctttttttt	240
tgnttgnntt	anacggagtn	anact				265

<210> 210

<211> 300

<212> DNA

<213> Homo sapiens

<400> 210

ccgggactga	caccactggc	caggaagtgg	ctgaagctca	gctggatgag	gatggggatt	60
tggaagtggg	gagaagacca	cgagccgcct	ctgattccaa	cccagcaggg	cctctgagag	120
acaaggtaca	tcccatgatt	ctagcacagg	aagaagacga	cgtcctggga	gaggaagcac	180
aaggcagccc	gcacgatatc	atcagaatag	agcacaccat	ggccacgccc	ctggagggatg	240
ttggcaagca	gggtgtggcg	ggcgccctgc	tcctggcaga	ctacatcctg	ttccgacagg	300

<210> 211

<211> 294

<212> DNA

<213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(294)
 <223> n = A,T,C or G

<400> 211
 ccaggatgga ggtccggggc tgccccaagg gtcccaccac agccagcggg ctggcctccc 60
 accccagcat ccatacacgt aggcctgttg ctgaggggaag gccctctagg gtcactctgt 120
 ccaggggttc tttgcttcag ctgcacatcg gctgcctctc caggaagcgt gttcaacaca 180
 tggaatcagg gtcaccacca gacctgccga ggccacactc ctggagtatc tgcattccaaa 240
 gatctgcacg tttgtaaagc taaggggtgn tnnttggant aagcttnagg tttg 294

<210> 212
 <211> 299
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(299)
 <223> n = A,T,C or G

<400> 212
 gcaagaccag catctggaca gtgggggctc ttgagagtcc ccggcgcccc ccacaccagg 60
 ttgtcctata accctctccc ctctgtggag acgttaatgc caaggggtgt gtgnnnaggn 120
 aagtcctnnt ntgcanccaa gattgacaga tanttctagt nacttcnng gnntccattc 180
 ttattttatt ccaatatnaa nanaatncag gtntgtcan attattaagg tgtgtctatc 240
 tatattttta anaatctntt acanngtttt ctgtcatctn gtnccattca tgtcttaca 299

<210> 213
 <211> 255
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(255)
 <223> n = A,T,C or G

<400> 213
 aatatcccca aataacatgt cttacatgtt tggtaagact tactgtaccc tgtcctagaa 60
 gatagaagat gccctgccct tagaagacaa agagactgta gagctatgcc ttctaaatct 120
 taagccactc ttcagataat ggatcccttc atggtcagcc caaacatctc aagaactttt 180
 aatttgtacc gtttgtcttt ttttccatct atttaatacc ncantnttna ctttattatt 240
 atgaancna tatct 255

<210> 214
 <211> 138
 <212> DNA
 <213> Homo sapiens

<400> 214
 tgccctgcag ggctgccctc tgcagagcgc tctctgtgtg ccagagagcc agagacccaa 60
 gacagggccc gggctctgga cctgggtgcc cccctgccag gcgaggctga ctccgcgtga 120
 gatgggtggt taaggcgg 138

<210> 215
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 215
 agccgagctg ggccgtcctg gggatcggta cagctccctg ggggtggtgac aggccctttg 60
 tgaaagtgtg gtgcttggtc ttccacccca gccccagaca ctgcttcaaa tagcaccaac 120
 cagatgggag tccacatctg tgggtggcaaa atgctgacat tttcccaaga ggtacacaag 180
 gtgggagagg cctgctgtag cagaggtgtg tgtagagaa agcaggggcc tgatttagta 240
 gcagagaact ggggtgagaaa aatggccaga gaaagtgacc tgccagctac cagtgtttcc 300

<210> 216
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 216
 agctcattaa cttaccagag gttttaaaat ctgagaagca ctcatcctaaa tgcttttggtt 60
 ttttgccatt tgtatttcag gagatgcaag cagcattgta tctgcaattt gctacacagt 120
 ccctaagtca gctatgggaa gtacgctcta tgctctagaa tcaggctctg attttaaatc 180
 tagagggatg tctgccgcga gtcgtgtgat attcgggcct ggtgtgacca tgccacctg 240
 tgatgtcatg cttattgatg acagcgagta tgaagaggaa gaagagtttg agattgcctt 300

<210> 217
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 217
 agtagaatag tcttttatga aataatatac ttatggaaaa tatatgactg gtatatgatt 60
 ccttttagagg aagaaaaattt caattttcag attcaaagga agcacccttc ctagtctata 120
 tatatagtaa gcggagaact agttttacag tgctcatttc aggtcttcag taagtgtgta 180
 tgatgatgtc agaagtattc attggctcac tttcaaatca ctgaaaattc agccatgcta 240
 aggttggtcta ttacgtgtat tagcgtttcc aagcgagtgg tcttggctgg ggtgagattg 300

<210> 218
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 218
 ggtagacagc ttcaagtggg actcgggtggg atacatgaaa catttggacc gtgacccgga 60
 aaagtgtgacg caccatatgc ctttgtttta ctgtctctat gagaatcggg aagaagaatt 120
 tgtgaagacg attgtggatg ctctcatgga gggtacagtt taccttcaat cagacaagga 180
 tatgatggtc tcattatact gtctggatta ctgctgtcac ctgaggacac ttaagttagg 240
 tgttcagcgc atctttcaaa acaaagagcc acttataagg ccaactgcta ggttgtccta 300

<210> 219
 <211> 296
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(296)

<223> n = A,T,C or G

<400> 219
 ctgcaaagaa aggaagattt ttctttttac aactagatat tagttttaga ggaaggaaat 60
 agctgaaaaa ctaaatttgc tttggtgaaa tgtcctgtnc ngancagtnc cttggcatac 120
 nacanctnca atnggggagn tnttatacat nctctgacgc tntantnnta nggngactct 180
 nnatttncgt nncntnttan ggtnnccnn tngtctgttn tcttnagtan aattangcnt 240
 ccttnnanng ttggtgtctn ntnttgcata tcnntttang cttttnttna tatttta 296

<210> 220

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(300)

<223> n = A,T,C or G

<400> 220
 atttcccttt gccctgccac tttcaccata gggccttctt acctggcaga ggagtgcctt 60
 agataccaga agattggcag ggaagaaggg cagccacttc ctgggtacca tggagaagct 120
 tgtcatgttc caagcctgtg cttacttgtc cagtagcaac aatgggaaac tgtattatct 180
 ggggtagggg tagaaccctg agggcataaa gctcagaatt ccangctgca tctggtanaa 240
 tcggcttggc nggggttcan ctgctccctg ggaggccttg gcataactnag gctgctccag 300

<210> 221

<211> 300

<212> DNA

<213> Homo sapiens

<400> 221
 gtacattgtc ctgacactgg aaaagacatt tggaatttac tttttgacct ggtctgccat 60
 gaattctgcc agtctgatga tccacccatc attcttcaag aacagaaaac agtgctagcc 120
 tctgtttttt cagtgttgtc tgccatctat gcctcacaga ctgagcaaga gtatctaaag 180
 atagaaaaag tagatcttcc tctaattgac agcctcattc gggctcttaca aaatatggaa 240
 cagtgtcaga aaaaaccaga gaactcggca gagtctaaca cagaggaaac taaaaggact 300

<210> 222

<211> 300

<212> DNA

<213> Homo sapiens

<400> 222
 ggagaagcaa ctgacgacag atgctgcccg cattgtgcag atgcagccca gaagcagatc 60
 cagagcttga ataaaaatgtg ttcaaaccct ctggagaaaa tcagcaaaga ggagcgagaa 120
 tcagagagtg gaggtctccg gccgaacaag cagaccttta accctacaga cactaatgcc 180
 ttggtggcag ctgttgccct tgggaaagga ctatctaatt ggagaccttc aggcagcagt 240
 ggtcctggcc aggcaggcca gccaggagct gggacgatcc ttgcaggaac ctcaggatta 300

<210> 223

<211> 300

<212> DNA

<213> Homo sapiens

<400> 223

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ctcaatctct tgacctcatg atccacccgc cttggcctcc caaagtgctg ggattacagg      60
catgagccac tgtgccagc cctcccttc cttgttttg taaaataaag tcagagaaac      120
ttttccagct atagtcaact aatacacatt gatttgaaagg agtagaaact gaggagtta      180
cataaaataa cttctctgtg aagtattagt gagatgatca ggctggggg gggagcttga      240
agagaggagt ggataaagca gtcaagggtca aacaggagtg agacagtgag caggactgaa      300

```

```

<210> 224
<211> 264
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(264)
<223> n = A,T,C or G

```

```

<400> 224
accacgtcat atacagccta caaagagctc ttgactgtga gctcgcagag gccagttgc      60
ataccactgc cattgacaaa gagggctcgtc gggctgttaa agcgggagct tatgctgctt      120
gccaggaagc aaaggaagat ataaagagtc attcagaaaa tgtctctcaa catccacttc      180
atgtagaagt attacactca gagattatgg ctcattnaa atntgctttg ngccttnntt      240
nctgnatnaa tnnntttatt ttnt                                           264

```

```

<210> 225
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 225
gaaacatggg gaaaagtctg taaactcctg gttgatgcaa ttcataatca actaactgac      60
atggaaaaat gtattttgaa atatatgaaa ggaacatcta ttgtgggtccc tgaaccactg      120
cactttttat taccaggga aaaaaatctt gtaacaattt catatccttc aggaatacca      180
gatggccagc tgcaggccta taggaaggag ttacatgata ttttcaatct gcctcacgac      240
agaccctatt tcaaaaggct taatgcttat cactttccag atgagccata caaagatggt      300

```

```

<210> 226
<211> 283
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(283)
<223> n = A,T,C or G

```

```

<400> 226
cagcatcttt caggctcatc ggagctgcaa tcgaagtctg gagacagacg aggaggacag      60
ccccagtga ggaacagct ccaggaaaag ctcttgaag gataaaagcc gatggcagtt      120
tataattgga gatttgttgg attcagacaa tgacatcttt gagcaatcca aagaatacga      180
ctctcatggt tcagaggact cacagaaggc cttcgaccat ggnacggagc tcatcccttg      240
gtcgtgctgt ncatccaanc cgatgtgccc anttctgtct tta                                           283

```

```

<210> 227
<211> 300
<212> DNA
<213> Homo sapiens

```

<400> 227

gggaatatcc	tcaaccttaa	atccttatct	gccgttactc	agggatatac	taggattatg	60
tcatcaatta	tcttcaataa	tagcattttt	ggtcaaatta	aatgagtggg	aagcttcttc	120
acaatgtgac	cattgaaatt	gaatggtttg	ttctgtacct	ttttgcttca	gcaatcaatt	180
ttctccatta	agatgggact	tgtactttaa	ttcagatatg	gtacctcccg	aatagaaaaa	240
aaattatgtt	aatatagttg	taataataag	tgtgtgttaa	gatttgggta	ctataaacta	300

<210> 228

<211> 300

<212> DNA

<213> Homo sapiens

<400> 228

gctgggtgca	tgtgctacca	cacccaatta	tgaatttcat	cattagtttc	ttagtagagt	60
ccacatgtcc	tcagtagtaa	gttcatcagt	gctaaatatt	tgaagggtatt	tctactgttt	120
tgtaaaagta	acttaagcct	acctggctcg	ctatcttttg	agtatttata	ctttctacgg	180
gctttaggtt	aaacataaaa	agagaaaaaa	tatcccaata	atacagtttt	taacctttta	240
tgataaagac	atgcttagaa	tgctgttaag	ccttctgaga	tttaaccact	gaaactaagt	300

<210> 229

<211> 300

<212> DNA

<213> Homo sapiens

<400> 229

tgagctggga	gaaggggaga	aagtttgtga	agaggagatc	ggtgacctgg	gctccttatg	60
tgccctgaaag	agttttgagtt	tcctgttaac	tccaaatcaa	cagtattttc	aacaagaaat	120
gtgcaattga	aatcaagtgc	tgtttaagtg	cagctaggat	ttccacagga	agacacttgc	180
agtgaacaga	gttatggagc	agcaaaaaa	cagatctatt	tggaaaaaga	gaaaacatat	240
gcgttgtatt	ttgcttcaat	tataaaatac	catcctctca	aagggtgggtc	taaattacaa	300

<210> 230

<211> 300

<212> DNA

<213> Homo sapiens

<400> 230

tccttttagg	taacacaaag	ttccaagtat	gttacctagt	ttacagagtg	gtactcaaga	60
agagaattaa	cattcttact	gtaaaacttc	attgataaca	atagtctact	tctagaaaaca	120
gaaataagaa	ttaaaaacag	tgctatctat	ttgtactggg	gagtgaattt	taacttttaa	180
gaaaatttta	atgtttaaga	agaacttcag	tgtatggagt	tacaagctat	cctgaatatt	240
tttataatag	aaagtattag	ttttcccagt	gtggcagctt	cttaataaaa	gaaattattc	300

<210> 231

<211> 300

<212> DNA

<213> Homo sapiens

<400> 231

gaactaatga	aaagtgggtg	tctctaacct	tggtatgctt	tcagagcatc	aggggttaaat	60
tacctcaact	tttggcaggt	atactctaaa	gctattaagt	atataatatg	ggctcggcat	120
ggtggctcac	acctgtgagc	cacctagcac	tttggcagtc	caaggcggac	agatcacttc	180
aggtcaggag	tttgagacca	gcctgtccga	cgtgggtgaaa	ccccatctct	actaaaaata	240
caaaaaccga	gcgtgggtggg	tggcatgcac	ctgtgggtccc	agctacttgg	gaggctgagg	300

<210> 232

<211> 300
 <212> DNA
 <213> Homo sapiens

<400> 232
 gagacctgca gcccctgttt cgtggcagac agcagggtgcc tggcgggtgac ccacgggggct 60
 cctggcttgc agctgggtgat ggtcaagaac tgactacaaa acaggaatgg atagactcta 120
 tttccttcca tatctgttcc tctgttcctt ttcccacttt ctgggtgggt ttttgggtcc 180
 acccagccag gatgctgcag gccaaagctgg gtgtggtatt tagggcagct taacagggggg 240
 aacttgcccc catggtcaga ggagaccag ctgtcctgca ccccttgca gatgagtatc 300

<210> 233
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 233
 agaaggctct taagacactc aataaatata cttattgaat tagtagaact tttcccatgt 60
 atctcctatt actacattag gatctttgtt cccttagtgt gtctttagcc tgtgctctca 120
 caagctttgt ggtgtcgtgt ggatcacagg atcgtttaag ataaagatac ttttagctct 180
 ttaattctgg tattctatta ttggtacagg gaaccatac attatcttaa tttcagagta 240
 acacacgtct cggcatggga caggggggtgt cctaataaaa agaggggctaa caggtggaat 300

<210> 234
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 234
 ggaagggtta atattctcat ttttccctcc tattctatct ggagagatca taaaatacat 60
 tacagttaga gtcaacaatc accacttgaa gaaatctctt caacacaaag cctgataaaa 120
 tttacatctg gtaaattgtt atttaagcta ctgcgaaaca catatactta aaaaaaaaaa 180
 gccttttcat tgtctcaatg tcttgaaggc tggagattgt aaagcacttc cctaaagtcc 240
 ctatgagcag gatgaggcta tttgccttta tagagctata gaactaataa gcaatcaaag 300

<210> 235
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 235
 ggacattata tgtctgaatt ttcacagtac ctttaattaa agagatatct ttaattaaag 60
 tagctctgtg aacagcaagg aagtggatga ggaaacagaa attggcagag tccatgattt 120
 gtccagatta aactgccatg agtgactgta acaaaaattc agaacttatg taactcaaat 180
 aggtatattt gagaaatagg tcggcacagg tcaagatgtg aaagcccaat aaagctaggc 240
 agagacttgg taagataaaa aaaaagtgcc tcaaaatgtt cagtgcagct agtgccctga 300

<210> 236
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 236
 ggtatcagaa gccaaagccag agctcagggtg ttttgattca cagcccttta taaccattat 60
 cattttgaat gaaaagtaaa tcaactgttc ttagtgattt gggcatgttt cctgagttaa 120
 gggatctgtc tgacatccgt ggtaagcctt gtcttaagtgt aattgtgggt aaagacttgt 180

cccagatgga gtgggaggac atgaaggatg aggaactacc ttcaggacct tccagttccat 240
aggcagaggt ggggggaaatt cacagaaaaa caaatgagtt aaagggatac tgcagtagtg 300

<210> 237

<211> 287

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (287)

<223> n = A,T,C or G

<400> 237

gtacagcagg ccttgatttc aacaataaaaa tcccgacctc ccttgctgcg ctgcactgcc 60
cccgggagct gatgggttgg agactggaaa tcagaaaaaca cacaatccag aaacatgggt 120
tatctggaac ctaggatat aagatgccaa gataagtcaa attcacagag acacattgta 180
gaatgggatg tgccaggggc cacagaggag ggcagaaaata agttattctt gaatgagtac 240
agagtttcag ggttttttgt ttttgttttt ttttttttnt ttaaaca 287

<210> 238

<211> 300

<212> DNA

<213> Homo sapiens

<400> 238

cctcggccct tgcccagggt ggggcctggc cctcatcttg accaaagctg ctgtgtggca 60
gctcggcctc tctacgacct catcttggtg gctgcacact tttcctggcc cgcacccccca 120
tcccaggtcc ctgttcccca agaggataca gagcacgggt ctggctgact caactgtgcg 180
tcccaggttc aggggtcttac agagctccac cccctgggggt cttacctcac tgggaatgtg 240
ttttgaaaat gaatttgagg acaagccaac aaaccctgca ctccaaaaaa gcaaaacaga 300

<210> 239

<211> 300

<212> DNA

<213> Homo sapiens

<400> 239

gggcatgtac accctgctgg cgcgctgcga ggagctggag cgggctctgc agccggttca 60
ggggctggcg cgccaagtcc gggatatccg acgtactctg gaggtgttgg aggcctctgt 120
caagtgacca ggaggacagg agaggccggt cctggccagg gcaggggccca gcaggaccct 180
aaggactctt caggggagtcc tgggtgggaag tgcccaactga ggggaggcct gtgtgttggg 240
ggctcttcca gatgcgttca gctggcccggt gcccaactcg tgggccttag gctgggtgtat 300

<210> 240

<211> 300

<212> DNA

<213> Homo sapiens

<400> 240

gggaagtttg tcaatgacaa gagcaggaag agcgagaagg tgaagggtgat tgacgtgact 60
gtgccccctgc agtgccctgg gaaggactcg aagctcatcc tcacggaggc ctccaaggct 120
gggctgcctg gcttttatga cccgtgtgtg ggggaagaga agaaccctgaa agtgctctat 180
cagttccggg gcgtcctgca tcagggtgat gtgctggaca gtgaggccct ccggatacca 240
aagcagtccc acaggatcga tacagatgga taaactgcc aagaaccagat ttttaaaagg 300

<210> 241
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 241
 caggagcatg ttgcgtcgtc actagctgaa tgagaacctt cgggtccaag tttcagcttg 60
 tgggtgttaa cacctacagg cacatcgatc cgattagaaa aagcagtggg tgcaaacctt 120
 ttctctggacg gcttctcttc ctgacctata ttgatacctt ttcttctcgg agatgtcgtc 180
 ccagtaaacc tgcttctgac tagctgcttc tgaaatgttc tggggcctcg aaccggccgg 240
 tctggccacc tcaatccaga ctggctgcac ccgctgctcc cgcgaggcct ggattcatgc 300

<210> 242
 <211> 277
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1) ... (277)
 <223> n = A,T,C or G

<400> 242
 ggcagatgtc acaacagaat aaccacttgt ttggagcctg gcacagtcct ccagcctgat 60
 caaaaattat tctgcatagt tttcagtgtg ctttctggga gctatgtact tcttcaattt 120
 ggaaactttt ctctctcatt tatagtgaat atacttggaa gttactttaa gaaaaccagt 180
 gaggcctttt tccctctagc tttaaaaggg ccgnttttgc tggnttgctc aagggtacna 240
 atnggnctt aatngnatat taccgnanan tgcctta 277

<210> 243
 <211> 291
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1) ... (291)
 <223> n = A,T,C or G

<400> 243
 atgaagtcag ggcaggccgg tgcccttttt gggaggcacc aggcggggag gagttggcgg 60
 agcaggctctg gctgtgagcc agcaccaggc aaccggccc ttgtccaggg acctctgctg 120
 ccttctctct ggggtcagga acctcagagg aggtggctct ggctactgca taggacgcan 180
 tnactngnan ntgcgtnnt ncctgtctna tttctgtan ntntntnenn ccttntttt 240
 ntntttntct ttnttnngan ttntnttctn nnntntntnt anttttatct t 291

<210> 244
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 244
 ctcagctctc accagctgtc agatgctgcc acagggcgag aacctccaag atgtgctccc 60
 cagggacatc tactgccgcc tcaagcgcca cctggagtat gtcaagctca tgatgccctt 120
 gtggatgacc ccagaccagc gcggcaaggg gctctacgca gactacctct tcaatgctat 180
 tgccggaaac tgggagcgca agaggcctgt ctgggtgatg ctcatggtca actccctgac 240

tgaagtggac attaagtccc gtggagtgcc tgccttagac ctgttccttg cccaggagggc 300

<210> 245

<211> 300

<212> DNA

<213> Homo sapiens

<400> 245

gttgatgaga	agtctaaagc	agtaatagta	gaattacatt	tcttctgggt	ttaatagtaa	60
ttgttgctg	ctgccttctt	gcagtttacc	ctacccatag	tgtgtaatgc	cattaaaacg	120
aagtatagaa	agatccattg	gcctggagaa	aggttagagg	tgtaggagtg	tatgacattt	180
agttcattgt	tcttactggg	ttcagcacat	tgcacctgc	gtgttatttg	caacttaaaa	240
gggtatagat	taaaacttgt	gtcagtgta	acaactcagt	accacaaaaa	tggtagaatg	300

<210> 246

<211> 290

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (290)

<223> n = A,T,C or G

<400> 246

gttacatcaa	gagataaata	gagtgaagca	gaactagtgg	tgcggaccag	ctcgccagca	60
acagaagggt	ttgtagtcgg	cctggcagtg	gacagggagg	ttggctagaa	ctattacctt	120
aggcccgtag	taatattcct	gaatccaact	tttcagaaag	aaataggtaa	catatttttc	180
accaggaagc	tttaccacga	cactgaacag	aatgggtctc	gtgcactaat	ggaggctcag	240
ttaaagggtt	gtggatcnca	tggaanagan	nttctgantt	ggatatttgg		290

<210> 247

<211> 300

<212> DNA

<213> Homo sapiens

<400> 247

tggagaggcc	ttggcaaaat	ggctcatcac	gttcaggccc	tccgggctga	gttgctcagca	60
gtatcaaggg	aggggcctgc	tctatcccca	gaaggatcag	gatcatatcc	aggatgcccc	120
acatacacca	agccaggcag	agggcagctc	agctcctgtc	ccatctgctt	tggatatctt	180
tacccaaagg	caggtaaccc	gaagagccag	cctccactgc	ccacagagcc	aggccagttt	240
gtgttggagt	ataggctcagg	agctgtggaa	ggaggcagtc	tgtgaggggc	tcatgcttta	300

<210> 248

<211> 300

<212> DNA

<213> Homo sapiens

<400> 248

tctgggagct	gattggagaa	gcggccaaga	gtgtgaagct	ggagaggcct	gtccggggggc	60
actgagaact	ccctctggaa	ttcttggggg	gtgttgggga	gagactgtgg	gcctggagat	120
aaaacttgct	tcctctacca	ccaccctgta	ccctagcctg	cacctgtcct	catctctgca	180
aagttcagct	tccttcccca	ggtctctgtg	cactctgtct	tggatgctct	ggggagctca	240
tgggtggagg	agtctccacc	agagggaggc	tcagggggact	ggttggggcca	gggatgaata	300

<210> 249

<211> 287
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(287)
 <223> n = A,T,C or G

<400> 249
 cttcagcgta gctctccacc tctacccgga acacaccctc tcacagacgt accaatgtta 60
 tttttagaat ttcattggatt tagttataca taccttaata gttttataaa attgttgaca 120
 ttttaggcann attnnggtcaa tattatcatt gaatannttg agacgnnnng gtgtntnttt 180
 tatnnttnna nggnttnnng ttatnnnann atttnnggtn ttannnaatn gggggggngt 240
 nnannngnat attggngtga nnantaatta gggntttttt tgtgtag 287

<210> 250
 <211> 259
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(259)
 <223> n = A,T,C or G

<400> 250
 agtcagcatt atttaacact ccccttaact gtctttgaac tttctctttt aacaaaaatg 60
 tcaagtcttt acagttgtaa tatcaccatg tttccattt ctgttaatac ttctatgaac 120
 ccctaaagta ttgaaggga ctagnngnng ncnagaggat cacanncnnn tgtntnttan 180
 ngncaanatn tgcnaaaca gttactngnn ctnnngnat gngnnnccn nagtntnnga 240
 gccntgcnn tncatgttc 259

<210> 251
 <211> 257
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(257)
 <223> n = A,T,C or G

<400> 251
 agtgctcggc tgctgccagc tgctcccaat gtgcgatgt ccgtgggcag aatgactttt 60
 attgagctct tgttccgtgc caggcattca atcctcaggt ctccaccaag gaggcaggat 120
 tcttcccatg gataggggag ggggcctgtn acngctgca gngacaaacn tangccgntg 180
 gganttangn ntntttcant cattntangn tgnnataann nccataannn ctngnatnng 240
 tatnnntna ctnnct 257

<210> 252
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 252

caagtgccga	gacccgaccc	tgggcgtggt	gcatcgaggt	agatgcaaag	atgctggcca	60
gagcaagtgt	cgcttgagc	gggctcaagc	cctggagcaa	gccaagaagc	ctcaggaagc	120
tgtgtttgtc	ccagagtgtg	gcgaggatgg	ctcctttacc	caggtgcagt	gccatactta	180
cactgggtac	tgctggtgtg	tcaccccgga	tgggaagccc	atcagtggct	cttctgtgca	240
gaataaaaact	cctgtatgtt	caggttcagt	caccgacaag	cccttgagcc	agggtaactc	300

<210> 253

<211> 300

<212> DNA

<213> Homo sapiens

<400> 253

gctgcagcaa	ctgctgctgc	cattgcaacc	gcagctccgt	tgataaaggt	gcagagtgat	60
ttggaagcaa	aagtcaattc	tgttacagaa	ttacttagta	aattacagga	gactgataaa	120
cacctgcaac	gtgttacaga	gcagcaaaca	agcattcaga	ggaaacaaga	gaaattacat	180
tgtcatgac	acgaaaagca	aatgaatgtg	tttatggagc	agcacataag	gcatcttgaa	240
aagttacaac	aacaacaaat	agatattcag	actcatttta	ttagtgtctg	actcaagact	300

<210> 254

<211> 300

<212> DNA

<213> Homo sapiens

<400> 254

gggaaaacaa	aaggtaatag	gaggggtgct	gggagaacaa	ataggaagaa	aagggaaaac	60
ccagaaatag	taattgttag	tacccctgct	acttgactgt	tgaaaatgct	ttaaaagttt	120
gttctgaatt	aggagaaaag	gcgctccctc	aaccaggctg	aaactaccac	cagtgttggt	180
gccagaaacc	tggagcagga	aggagctgct	tctccctccc	gccttcagct	caccaccat	240
taatacctgc	tattggcaag	gcccattctg	atggcagatg	gcaaagcagc	ctggaaagtg	300

<210> 255

<211> 300

<212> DNA

<213> Homo sapiens

<400> 255

gtttgagctc	ttgagccagt	gacttccctg	cacgttcagc	tttctccttt	gtgaaatggt	60
aatagaagca	cgctgcactt	gggattcctt	tggtattacat	gtgagggctc	tagaaacact	120
tgatgtgtaa	gccaactatt	atgtattact	gtatatggaa	cacaagggat	gtagccaaaa	180
ctaaatgcaa	gtttgtgcct	cagatgtctt	cctatcagaa	cagagtcaaa	tccagatttt	240
gatgcttaaa	tgtgacagct	tattcagatt	tagaaaaact	tttggtatgg	gccaaagaaa	300

<210> 256

<211> 275

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(275)

<223> n = A,T,C or G

<400> 256

agcactgtga	gtgaaaataa	aaccaggagc	agggttagca	tatctggatt	ttagtctgag	60
ctctttgtca	aaaaagtcct	gggcctcagt	ttctttatta	ctgaaggaga	gaatcaactc	120
tgtgattcta	agttataaac	caccgttatt	aaagttctac	tggagccaaa	actccaaatt	180

gttctgtata ttaaaacttt tcggcagggc atngtnngctt acacctgtaa tcccaataact 240
 ttggnnaggct gnggnnnnncn tatcncatgt gccca 275

<210> 257
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 257
 ctgtttcactg gcacacaatc acagtgtctt gatagttttt ctggttttga atttctggaa 60
 gggaaatcct ccttctgagg agacttcact ttccgtcagt aatggggaaa actgtttccc 120
 tcgggatagc agaggtcatt ttaaaagaga acactcagca gaaatgaaaa tccaaacaac 180
 tgatttttaa ttcgtgtctc tttgttcagt gatgttggtc ctgattctgc ctatgagacg 240
 ggaataaaga gagatttcgg gaaaagtgtg aagccaaaca tgggtgctat ttaaatacca 300

<210> 258
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 258
 gtttctttcc catctgcctt ttcctgtctt tcagaacatt tctggggtgt tgtttgggct 60
 cagcactgtg ggaagtgaag catttagcct agccagggac tgggcattat ctgtcagatt 120
 accaaatctt gagttatctg tggctctaaa aagaaaagaa ggctgaagga accagacaga 180
 gggacagtgg cctgggaaca gagccaagat gatcatgttt tttaaccaa gcctgtagat 240
 caccgtcaag aaaggaattt ggaggatagg agtatctaca tgtagtgggg gaggtgtggg 300

<210> 259
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 259
 ctttacatca tctattctac ctccattcac tgggtcaaaga agcgcagagt taagttggcc 60
 agtgtggcgt ggacacagcc aggcgcagac ctcctgccca gcgaagccag cgtgaggtct 120
 gttggctcag ggggtccagtc cctgggtccc cgaagaggta agccaaagac atagtatac 180
 ttggttcaat tcgggtccag agagtatcag atgggaaata gatgacttgt ttacacctgg 240
 caaataagac atcactaaaa tctaccatga ctggaaatta cttaatgcaa ccagaggaga 300

<210> 260
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 260
 gacatttcca atagctcctt tgtgaatttc cagatatggg attttctctgg gcaaattggac 60
 tttttggacc caacctttga ctatgagatg atcttcaggg gaacaggagc attgatatac 120
 gtcattgacg cacaggatga ctacatggag gctttaacaa gacttcacat tactgtttct 180
 aaagcctaca aagttaaccc agacatgaat tttgaggttt ttattcacia agttgatggt 240
 ctgtctgatg atcacaaaat agaaacacag agggacattc atcaaagggc caatgatgac 300

<210> 261
 <211> 300
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(300)
 <223> n = A,T,C or G

<400> 261
 cagggatgtg aggctgctgt tgggggtggg gggaggggaa tgggcaggca agccagtctt 60
 ctgtcttctt ttgctaactt agggttttga gcagggtggg gtatggtgcc tgacataccc 120
 acctgccacc ctgggaacct cactgatctc tctttcagcc tacacctgct gatccatgat 180
 gtgtgtgaat tgagggtgta tgannnnct ncatcaacc canagatnaa taattcttct 240
 atcaataatc agntnttact actnaatgcc attcgnattc ttgntattca caaaagatct 300

<210> 262
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 262
 gcactcggtta aactctggga ctggagccaa gagactgtga gaaatgacct ttctcatcaa 60
 gtttgtccca agccaggctt aaattgatag atcgtctagg ttttctgatg ctggtaaaga 120
 gactctgtgc ctcagggaca ggtctgcaaa gatcattaag aaacagatta aaattagga 180
 gcaagacaag acaagagaaa gtttctttac gttctcccag acctctctgg gcctataggc 240
 agatcaaatt tggcctctag atcagcttgg acaaaatgat gtccacggtg tctgagtagg 300

<210> 263
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 263
 cagaggtgaa gtgatgtgtt caaagtcaca cgtagaacaa gtggtggaac agacccaacc 60
 agtctgatgg cagagcctgc ctctgaccac tacactgtcc tgccaactaa gcaggtttga 120
 aagagctctc ttagtaaaaag ccctgcaggc gggagtgaac agaagtgtt ggtatcccag 180
 tgactttttg aaatgcacag gataaggag ggtggatttt ccaagccatg gtaaggcagc 240
 atgacctgac ccagggtgag ggagagggtt catgatgtaa acctcagagt agctagtcac 300

<210> 264
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 264
 gacaccacaga ggcagggcac cgagcgcttc aaacgaaaga accagcccag ggagcacatg 60
 gggagctggc agtcagtaaa ggagaccttt ggtggggact tctccctgaa ctggttcaac 120
 cctttctcca gaccgtgtca gccagagatc cccagtgaac aagacatggt gcggcagggtg 180
 acatcgctgt cagacaccga aacaatggag gatccatcag aggagacaaa ggacgaggac 240
 tctgtggagg tgacagatga atagatgctg ctgtggggag agaagcaaac actaaaaagt 300

<210> 265
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 265
 ataaaacagg aattttggag cgggttgacc gaaggttagt gtacaaattt ggaaaaaatg 60
 cacacgggtg gcaggaagac aagctatgat ctgctccagg catcaagctc attttatgga 120

tttctgtctt	ttaaaacaat	cagattgcaa	tagacattcg	aaaggcttca	tttcttctc	180
ttttttttta	acctgcaaac	atgctgataa	aatttctcca	catctcagct	tacatttgga	240
ttcagagttg	ttgtctacgg	agggtgagag	cagaaactct	taagaaatcc	tttcttctc	300

<210> 266

<211> 283

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(283)

<223> n = A,T,C or G

<400> 266

aggatccaat	actgcctttc	aataatatac	caaaatacta	gttttataaa	tgttggttaag	60
gtggactgga	aaaactaata	catattttga	agtatttctc	tgatttattg	aggatatgat	120
gggcaaaggc	aagctttctc	gtaggtatta	tgagagcaga	cagatatttt	agtgtggttg	180
ttgacatgag	agagtcattg	gcagcgcagg	gaatagagag	ggaggactgg	tctgattatc	240
tggcaatggg	aaattgagtt	tagtacggan	aattgagagg	ata		283

<210> 267

<211> 154

<212> DNA

<213> Homo sapiens

<400> 267

gaggaccgtc	cctctcctcc	ccctttccct	ctttcgga	gggggtttctg	cggggcccgg	60
gagcctcgga	gtaccgaacc	tcgatctccg	gggcgggggtc	cttggtgggg	actgaacgcc	120
ccctcccggg	gacgggcgga	ctggccgcgg	agta			154

<210> 268

<211> 300

<212> DNA

<213> Homo sapiens

<400> 268

tgagtcttca	aaaagtatca	gaagagaacc	aaaatgcttt	atgacaacag	cagagcttga	60
gcatcttgag	aaccaacttt	gccaagaat	attgattagt	agtttctgcc	atggtcacag	120
gaaaggagaa	tttagcattt	tgtgtctctg	tgtgtcatatc	ctgaataaga	gtctattggt	180
gcaaaagagc	atatccaata	gtgatattca	taaaataagt	gacgcaaaat	agtccatgca	240
ggatgggcac	agtattttcaa	taaaatacag	gtagttaagt	aaaggtaatt	tctagttgag	300

<210> 269

<211> 294

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(294)

<223> n = A,T,C or G

<400> 269

aaaacaaggg	aacagtgtgt	aaggaacttg	tgacatcac	tgactggtac	cccactctca	60
ttttactggc	tgaaggacag	attgatgagg	acattcaact	agatggctat	gatatctggg	120


```

agaccatagc gtgattgtta taattttata cttttataga gcacttgata ataaatgtat      180
cctnatntct atggntttta tccgtacaag tgtgctgcat tctantgnta cattntnggt      240
ntanctatna gtaccttatn atantcnttc ttntntcat aatttgnttt ctga              294

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<210> 270

<211> 294

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(294)

<223> n = A,T,C or G

<400> 270

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accgggacca gaacatgacc ggctgggcct acaaaaagat cgagctggag gatctcaggt      60
ttcctctggt ctgtggggag ggcaaaaagg ctcggtgat ggccaccatt ggggtgaccc      120
gaggcttggg agaccacagc cttaaggtct gcagttccac cctgcccac aagcccttcc      180
tctcctgctt cctgaggta cgagtgtatg acctgacaca atatgagcac tgcccagatg      240
atgtntant ncttggaac anatggcctg tggtaatgtg ncttctgatt gtgg              294

```

<210> 271

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(300)

<223> n = A,T,C or G

<400> 271

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ggaaatttgg gaagaatcca agaagtatag gccaatgaaa acaagttatt aatacaaata      60
gtactgtata tgagagtaca cattaggaat gctgtgcttt aatgcataaa catgtttaca      120
gtggccaca tgtgccagga gatgtgggaa tggctacccc tgaagtcata tggagaaatg      180
gggtcctcat cgcacaccat acacanncat nactnnacan atggnttana gacncttaag      240
acctganncc aancaaaact ctaggannan actcanggta nactcncatg nnatttgttt      300

```

<210> 272

<211> 299

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(299)

<223> n = A,T,C or G

<400> 272

```

gcacgcccc ttttctccgc cacttcacca gtttctgaaa tccaacctcc cagacttcac      60
aggaagatag atattcttga gataatgaaa agtgatatct tcgcatacta aaggaataaa      120
ggttgaggta tatatgattt ttaactgtat taggggtgta tgaaccagtt taaaaacgag      180
gttttattta ctgtacagat gaatgcaaat cagaaccaat gatcccttgg cctacttagt      240
tannaccngt tcatacatcc cttanggctt ttattattat tattattatt attacagac      299

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<210> 273

<211> 300
 <212> DNA
 <213> Homo sapiens

<400> 273
 cccacacctg cctggccaac ccctggcact gatgatgcct ggggtgcgggt taagctggga 60
 ggagctcctg cctgcctgga tgaagaggag gtcaagactt tgtcccccac tccgcaagat 120
 accctctctg ttcgggagcg gtgggtccct cccctgttag gaccttgtct ccctcaggac 180
 tggacctgga tcttgggcct gcagtcagat tgccagtttc acttagaggt ggaaatgtca 240
 acccactggt tggaaatggga agctgctgtg ttgtgagcca ccttatggaa aacccatgtg 300

<210> 274
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 274
 tgtcttttatt tttttatata tcctaaagta aaatctgaga atgacccaag aatatttggt 60
 tcagagggtt gtctttttgt tggcaagcag tgaagcacat gtaagtttct caagcttttag 120
 aatatatata tattaaaaaa caaaacaaaa aaaatgaagc acagacatgt tattttccca 180
 gagccatcag tccaaagtat ttcactgtat tattagaagc aacaacttct aaacattcaa 240
 ctattccaaa aataagattt tctccagta agttatcatt ctactttagt aataagataa 300

<210> 275
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 275
 attcgacctt ggtgaatgat gectataaga ccctcctggc ccccttgagc agaggactgt 60
 accttgtaag cttaaagctcc atggaataga gattcctgaa aggacagatt atgaaatgga 120
 caggcaattc ctcatagaaa taatggaaat caatgaaaaa ctgcgagaag ctgaaagtga 180
 agctgccatg aaagagattg aatccattgt caaagaaaga atttactgac aatgtgagca 240
 gtgcttttga acaagatgac tttgaagaag ccaaggaaat tttgacaaag atgagatact 300

<210> 276
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 276
 tattttactct ggaaagtagt agcagcactt caaggacata ggggttgctc atgtcagttg 60
 tttctgtttg tattggaaga atcataataa caaatattta agttggtaaa ttactaggta 120
 aacaggttgg tggatttttt gttatttttg agaatacttt ttagtttgat tctttgaatg 180
 aatttacata acagcttttc tgtcaagtca gtaatttcac ccattcttaa aaaacaagta 240
 ccaaaagagt ttcttaacac catatactcc tctagcagct gctgcctagt ttctctcttc 300

<210> 277
 <211> 281
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(281)
 <223> n = A,T,C or G

<400> 277
 gggagaagag cgcgcagcgg aacccctgtg tgcaccaacc tccccagag ctccggagcg 60
 cctctcctc acttcagggt tttggagcaa gagcttgcag gaagcccgca cccagcttcc 120
 ttctgacctt cagttcactt tgtcgccctt ggagaaagct gtttttcttt aactaaaaat 180
 aaccaaaatg ctaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaaaaaaa aaacnnncnc nnttaaaaaa a 281

<210> 278
 <211> 125
 <212> DNA
 <213> Homo sapiens

<400> 278
 ggagagcagg gcaagggctc ttgggcatca catccagagg ctgagggagg ggagacctgg 60
 ctgtgttcgt ggaactgaag gaccactttc gcgactagac cttagccagg gggaggtgtg 120
 ggagg 125

<210> 279
 <211> 254
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1) ... (254)
 <223> n = A,T,C or G

<400> 279
 ctctggtgg cttcaaattt actttctccc actctgccag tgctgctaata ggaacaaaca 60
 gtaaatctgt agtggctcag ataccaccag caacttctaa tggatcctct tccaaaacca 120
 caaacttgcc tacgtcagta acagccacca aggggaagttt ggtngnntta gngnattatn 180
 canntgatnn ngangaanan caannaaatn nnttntnnng aatnngtttt tttaananan 240
 ngnttctnnt taaa 254

<210> 280
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 280
 gtgccccagg cgcccgact cggcctggct ctggagaggg tgcacttcga gaagtacaac 60
 cagcgctttg gcaacgatgg gctgcatgag ccgctggact gggcgaggga ggaaggaaag 120
 gtcgcagcct tcaaggagga gcacatctac cccaccatca tcggcaccga gcgggacgaa 180
 cgctccatgg cccagtggct gagcaccttg cccatccaca acttcagtgc caccgctctc 240
 acggcagggtg gcacggggcg caaggtgccc agtcccctgg aaggcagtga aggggacgga 300

<210> 281
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 281
 gcttttagctg ttagaaagga acccccgtga catgacacag acacacgtga acaccagcc 60
 cgccggctct agcagccagc tgtgaaagct gtgtcaagtc acgggggttc ccgtgtgtct 120
 gtgtcatgga tgcaatgcgg gccctggagg actgtgcgtc acccgtaac cagagcgtgc 180
 ctccgggcca gcttccctcc aaggaatgag tggatttcat acaggatctc ttattgcac 240

agactgaatg gctttacatg tttctaattgt gaattaggca tgtgaagcag tgggtgtcca 300

<210> 282
 <211> 300
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <222> (1)...(300)
 <223> n = A,T,C or G

<400> 282
 atacatggaa gtctcaaadc tgaattttta tccatctcaa tatgaccatt tctctctgtt 60
 gggagctgaa cagattaagt atatatctgc cagggtggga aatattttgg tctatctttt 120
 cctgtcatca gaacttaatt taaaaaaatt atcaaagggtc agatgtgact actacagtaa 180
 gttggctatc ataaagaata ttccataaaa tgttttatct gccatacaaa attactgggt 240
 ttatggccgg atgtgggtggc tcatgcctgt aatcccanca gntcaggatt acngggtata 300

<210> 283
 <211> 300
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <222> (1)...(300)
 <223> n = A,T,C or G

<400> 283
 gctgcttcgg ggactcagcc agaaagctac tgaggtgctg agcgccgtcc tcaaggatct 60
 ctaccacctg ctgaagcacg tagtgtgtct ggagcccgat gacgtggcca agctccatgc 120
 ccagttggcc ctagaagagc tggatgacat catgaaaaac ttctgttcc ctccacagaa 180
 gctggagaag aagatcatgg tccgtccgta gacctggctc caaggacngt ggaggaggca 240
 gncanggccca ggnacccaga gncgtgccca ggtctttcan cagggtggcct gctgcctctt 300

<210> 284
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 284
 gctacacaac actgctaact tgactgtagc tatgtaataa cattagatcc cctaattgta 60
 attatattgg gtttgcacag aacactttta tcttcccctc accaatgtga agtgagggaat 120
 caggagtcaa actgtagaac taaaatttga cttcagtcta gcgtttcctt ggtgttttta 180
 ggttgctttg gtaagtttag gtttgctata tttctgattg cttagaattt tgttttagcc 240
 ctttaaaatc agatcataaa tatgaattca tacttctaag gaattttctt gctataagct 300

<210> 285
 <211> 286
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(286)

<223> n = A,T,C or G

<400> 285

atctgtatat	ctttcctttt	gtttacaact	gttaaaaaac	ctcaaaatag	ctctcttcaa	60
aagaagagag	attccaagca	acccatcttt	cttcagtatg	tatgttctgg	acatacttat	120
cggagcgcgc	cagctaagng	ntcaagcata	tanacattgt	cngntggan	ngnctngttn	180
acagccactn	nngcattggn	tncacgccnc	nggancncgg	tgnggctctn	ncnctantn	240
centnnntnt	gcnnttaccn	cctcnnnnnn	ncnntatntg	gccttc		286

<210> 286

<211> 300

<212> DNA

<213> Homo sapiens

<400> 286

ccaacctaaa	atatcattat	tttcaatact	taaatattag	cccatcattt	tttatcttca	60
gatgtctata	attggaagcc	tatatagaaa	tggttgatga	gcctatcgg	tgaaccactg	120
cagagaatag	agtgatggtc	ttagggcatc	ctgtactttg	catgctcctc	ctggaagtaa	180
agagtaagac	agagaatagt	aataatcacc	cattccagaa	ctgggtgcac	aacatcacaa	240
aagcttgctc	agacttatta	gcaagttaat	aaaaaactag	acttctttct	aagtacttat	300

<210> 287

<211> 300

<212> DNA

<213> Homo sapiens

<400> 287

ggtgggtggc	agaggggaaat	ccaacatgca	gactgtggca	gtgtcttgaa	cttctgttta	60
ttcaggtcat	tgaataagaa	actcttttct	tctgcattcc	tgtctttctg	catgtgtgtg	120
tgtgtgtggg	ctgggtaggg	actgtttttg	agatcactgg	gctgaaatgt	attctagggg	180
tgaaggatct	aggatgtacc	tgctcgatc	ttcctgactt	caccttttac	caattctttt	240
cttaacaaat	ttaaaattgg	tcagagcagg	agctgctagc	tggcttttta	acagtgtttc	300

<210> 288

<211> 300

<212> DNA

<213> Homo sapiens

<400> 288

gtcacatcct	cttaagtcag	gaactatctg	tataaggaaa	caagatttcc	attttatcat	60
ttgaaatgta	tttgactttg	tttcactagt	tgcattatcc	ccatggaaaa	cttcacattg	120
agaacttacc	attatatatt	tccataaaaa	tgcatgaacc	atcccttagc	taagtaagga	180
ttttgtaatg	ttctctcaat	aatgttgctt	ggcaaagtta	atattttttg	tatgctgatg	240
aaatttagaa	aagtccaata	ttgagcttga	ttgcaaactt	agaaaaactc	aagacttctc	300

<210> 289

<211> 300

<212> DNA

<213> Homo sapiens

<400> 289

aaggggaagca	ttccaaagat	tttcactggt	tatgttcaaa	ttacaacatg	tgacagaaagt	60
tgtgcaactg	aaaatccttt	caaacaacag	ctacaaaaga	gattggtcag	ttaggacagg	120
aatagaaagt	ggaaacttag	aagactggct	actccttggt	tatgattgct	gggggtgagtc	180
tgtgctgaga	actttttaca	aaggggtgtc	tttgctgata	tgagaggggg	gtgtcaaact	240
tttgagtgat	cactgtgggt	cctcagctta	gacatcttct	ctggcccaag	atggcacccc	300

<210> 290
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 290
 ttgcttcggt cactagccca ggagacattt cccacccat agacctagtc aagaaagagc 60
 cttatgggct ttcaggactg aaaagagctt ctgcttcttc tctcagatcc atctctgcag 120
 ctgaaggaaa caagagctac agtggatcta ttcaaagctt aacttctgta gggtccaagg 180
 agacacccaa agcttcacca aaccagacc tgcctccgaa aatgtgcagg agattaagac 240
 tagacactgc ctcaagcaat ggctatcagc ggcttggtc agtagtggca gcaaaagctc 300

<210> 291
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 291
 cgcgctttga aaaaatgaga tcagcaaaac gcaggcaaca gacctaatc atttcaaaac 60
 ttgatatttc attttgcgtt ttagctagag aagttttcct tgtgacttac taatggctgc 120
 aatgccaatg attgtaagaa aacaaacaaa tttatcatga aattctcctt gtcattttat 180
 aaatgcctat tttaacatca tttatggttc cagagatgca tacacttttt tctgacaaga 240
 aaaagtaaaa ggtgatgagg gcaattctgt cctactgttt ttacaggcct ttttcaaatg 300

<210> 292
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 292
 ctcaagcaaa gttcctgtag acaaagtaac accaagtact cttccagaag aggtactaga 60
 ttttgaaaaa ttccttcagc aaacaggagg gcgacaaggc gcctgggatg attatgatca 120
 ccagaacttt gtaaagggtg gaaacaaaaca taaagggaag ccaacattta tggaagaagt 180
 tctagaacac cttcctggaa aaacacaaga tgaagttcaa cagcatgaaa aatgggtatca 240
 aaagtttctg gctctagaag aaagaaaaaa agagtcaatt cagatttgga aaactaaaaa 300

<210> 293
 <211> 299
 <212> DNA
 <213> Homo sapiens

<400> 293
 aacaacaaaa atctgaacag aaatgctcta tttacgttct tttccttate tgtagtgttt 60
 taaagtcatt aaacttaaaa atgatgttca ggagaagatg agtgtatttg catagtctgt 120
 cataactctg gtattatttt gtacaaggag tgtgttaggg ttttcagttg taaccatgca 180
 gaaaatctac aaaataaaaag cagttgttaa ttagtccttt acaatcagaa ttgtctatct 240
 tggaaattta tgaagtactt cagatgtaat ttaagaaatt gtatttgagc caagcgtgg 299

<210> 294
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 294
 attagaccaa aaaaatggga tgcgtgtggg acagctttta aagtgtttga aagattttgc 60
 attcaacatt caggctatca gtgactcctt gagtgaacta tgtgaaaata agcgtgacaa 120

tgtagtcctg	gcattttaa	aattgagtc	aaccttttat	gagaaacttc	aagaaatgca	180
aattcaa	atg	taaaatc	atttagaata	acaccatgga	aaactttcaa	240
gtggtattta	tccctttgca	aggagagata	taattaagct	tacacaatga	aatggaaaaa	300

<210> 295
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 295						
gtaatccttt	ctttttcttc	tccctctttc	ctgctcttac	ttatacagtt	aggatgaatat	60
gatgctccac	ttccccaca	gataactcaa	tagctctgac	tgctgaaata	ttggtatctt	120
actgtcagca	cataacttgt	tgctgtgtta	ttgacatttt	cactgttttg	aaatttttac	180
tgttatctgg	gtttgaatcc	cagctctccc	aagcttcagt	tttctttcat	ttgtcaa	240
agataaaagt	atccacttca	taggggttgt	atgaggatta	atgatgaata	caaaacactt	300

<210> 296
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 296						
gtattcagta	agtaccaact	atgggtgctaa	cgtgagttcg	atacgaaaaa	agctgagatt	60
cactcatatc	cattttagag	gaaagaagtg	ctatgacctt	tccaaacttt	catttctcta	120
tcccaaagtc	tcacttaa	agattttact	actttatgat	ctatgtttta	agtccttggg	180
ataaaaagaa	caaacc	aatgaggagt	cttacttcta	cacttttatg	atttcttata	240
ttggcattag	acataaacat	gtctgagagg	ctgtctggtc	caactgtctc	tggtcacttc	300

<210> 297
 <211> 286
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1) ... (286)
 <223> n = A,T,C or G

<400> 297						
ggccctaata	cactctttgc	cctgtggcct	ctcccttttc	cccccttctg	gttggaggag	60
ggagaagtgg	caantgnngc	ncncacagan	nanctgactn	gttgactncc	ttatgctacc	120
ntgggtgact	ncatattgcc	cctnnatgat	tncaacacca	natatagcaa	atgacattta	180
catgctatga	aaacatctat	tgggtaaaat	cagatcttgg	atanagaaat	tctcgacttt	240
tatataaant	tttgntanac	ngnananaca	gaaanggntt	aagtgg		286

<210> 298
 <211> 166
 <212> DNA
 <213> Homo sapiens

<400> 298						
gattcatctt	cttgttcttt	aaaagtcaaa	aggctttttg	acctttaaat	aactcttaca	60
tctggtcac	actgttgaaa	tgttctacta	aattttcaga	gtggaaaagt	tttaggctta	120
aaactgactg	gtaaaaatag	aatatttctt	tgtattgatt	tttcag		166

<210> 299

<211> 300
 <212> DNA
 <213> Homo sapiens

<400> 299
 tgaaggtcta caaccagtt agggcagaat ggaggcaaat gaataatatt cccttggtct 60
 cagagaccaa caactacaga attatcaagc atggccaaaa attgttgctc atcacctctc 120
 gcaccccaca gtggaaaaag aaccgggtga ctgtgtatga atatgatatt aggggagacc 180
 aatggattaa tataggtacc acattaggcc tcttgagctt tgattctaac tttttttgcc 240
 tctctgctcg tgtttatcct tctgacctg aacctgggtca gagtttctc actgaagaag 300

<210> 300
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 300
 gttaaccttt tcagggtcca ccatacccag gctcttacct tagcagaagc ctgtgaagct 60
 ggtagcagaa acgagaagga acaaaattaa ctccaaggca gtaagccatc cacaagacca 120
 ctacacgaag ttaaggctgt gtgaaagagg gagtttattt aattttattg ttaaagaggc 180
 aataaaatat ctagagaaac agtccattaa aaaattggca aatccagcct ggccaacata 240
 gtgaaacccc atctctacaa caatacaaaa attagctggg tgtgggtggcg catgcctgta 300

<210> 301
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 301
 cgggagtga ggcgcggagg cccgagaaag gataaacaag acaccgcctc atcagataag 60
 aacgtctcct tcgatgtcac ggatttcaag aggtagctgg agaaactgac gtcaggagtg 120
 tcctgtgaat gaacatcgcc cgaggcctag caccacaga agaaggggtc tattttactc 180
 tactttgctt gatattattt attttctaac aaagtgatcc gtagtctgca accttaggct 240
 ctgacaggca aagcccattt cttagctctg gggatggctt gcaggggtctc cacctctgtc 300

<210> 302
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 302
 gagttgggtca ccgtggccca ctatgacagc cccgaggccc tgagccacct ctgctgccgc 60
 ctggtcagta ggggaagcaa ggtgaccgca aggggggtatg atcagcagcc cacttggtcc 120
 agggttcacc ggggccccca accgtttcta ctgcagccaa accagatagg ctactgggtg 180
 ggcaagtcca aggtctccga ccatgccacc tgccctgggg gctccctggg aaccccgggc 240
 cctggattca gctctgcagc ctctccgca ctcaggatca gccctcctgt cctgcactag 300

<210> 303
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 303
 gatacctgtg cctgacacat ctgggcaaac tgtggcactc aaagcagatg agaaaaccat 60
 gaaagaatcc aggaggaaaa cagatttctc acgaaggaaa ggcgattcca tggacagctc 120
 ccttcttagt aggaactgtg gaaaccagaa gtagctttaa agtgctggga taaaactgtc 180

tttcaaggat aagagtgaaa acaaagacat actcagacaa aaactgaaaa catttaccac 240
 aaacaaactc accttaagca ggcaaattggc cctcgatgtg gaaagcaaag ctcagggggac 300

<210> 304
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 304
 cctcgtccca ggaggccacc cctgagaaaag agtccctggc tgagtcggca gccgcctaca 60
 ccaaggcaac agcgcggaag tgtttggttg aaaaagtggg agtcatcacc ggggaggagg 120
 cggagagcaa tgtgttacag atgcagtgcg agctgtttgt ctttgacaag acctcacagt 180
 cctggcttct ccgccaccca cacccttccc accctgctgt ggggacctgc ctttgtgggg 240
 agcagccagc cctctgcccc tgcccagggc tcccctaacta taggcctggg acccccggcc 300

<210> 305
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 305
 tgttatttct cagcacgtat gtagcagatg aggaaatgaa ggctaaagggt catatatcta 60
 caaagtgggg aggtcagact ttgaaccac aacctgactg tggagccact tcagtatact 120
 ctctccccc atagaaagttc caatagaaaa aaaatgctac ttaagtggg aaatcacaaa 180
 ataagtcca atgaacaata aatgttcaac ctactacag ttaaaatgta tattaaagca 240
 agagttgaga tgacactttt ccttataaaa cagacaggga ttcagggaca ttgggactct 300

<210> 306
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 306
 gccatgtacc gggttccaaa gaaaactaat ttatcagact ttgagctgga agtatccgaa 60
 aggcattcat gttgagactt tagaaactga aaagaaggag cgatatatag ttatcagcaa 120
 agtagatgaa gaagaacgca aaagaagaga gcagcagaaa catgccaaag aacaggagga 180
 gctgaatgat gctgtgggat tttctagagt cattcacgcc attgctaatt cgggaaaact 240
 tgttattgga cacaatatgc tcttgagcgt catgcacaca gttcatcagt tctactgccc 300

<210> 307
 <211> 268
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(268)
 <223> n = A,T,C or G

<400> 307
 aaaaagcatt caacatgcaa atagggtgga tatgttgata tcttgacctg actggctgct 60
 aatttctgaa tcaatctgtt tgtgcattta agtcatttat tctctatttc aaaaagattg 120
 aatctattaa agtcttaaga tctgtcttcc attataatgg tgaaagattt tgaccagata 180
 agggaaaaga naacacaaca gcttgatttt gggaacncag atcttctcan aggggggccac 240
 ttacanaga gattgntcac cnatngca 268

<210> 308
 <211> 252
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(252)
 <223> n = A,T,C or G

<400> 308
 ataagacacc aaatcaaagt ggtgatagta aatatcattg ccttggttct cacctcagag 60
 actagtgttt caccattaag tgtgatatag cttagttttt tataaatact tgggagtgaa 120
 tttttaactg ggtcatagag gattgttgga tttcagcang tagaaatcag nggaaattan 180
 ntctccagac acngggaaga gacnctagtn gnannncnnn tggnnntnctt tggctntaga 240
 ttanngggan at 252

<210> 309
 <211> 268
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(268)
 <223> n = A,T,C or G

<400> 309
 gaaagattct caaggaagaa gtaataaggc attacatctg aagagtgatg ctgaattttac 60
 aaagatatatt ggccttacta aggatttgag agtgtgcctt actcgaattc ctgaccattt 120
 gacctctgga gaagggttctg attcctttag cagnntggng annantnnnn cnnntntntg 180
 tcacntnnnn ttgacctctn nctntntntn tcncntctnc ntntnnnggt atngtcnnch 240
 nnnnatnttn tntnnnttnc tctctctt 268

<210> 310
 <211> 295
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(295)
 <223> n = A,T,C or G

<400> 310
 ggagcggcag gccaggccc aggagagtga ggaggaagag gagagccgga gcaccaggac 60
 actagagcaa gagatcgaac gcctgagaga agagggttcc cggcagctgg aggaacagca 120
 gaggtctcatc cgggagcaga tacgccagga gcgtgaccag aggttgagag gaaaggcaga 180
 aaatactgaa ggccaaggaa cccccaact aaagctaaaa tggaaagtga ngaaggagga 240
 tgagtcaaaa ggtggctact ncaaagacgt tctcctacgn cttttgctta agtat 295

<210> 311
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 311
aagagaagct atgaaaagct tcagaaaaag caaatgaggg aattcagagg aaataccaaa 60
aatcacaggg aagatcgggtc tgaaattgag aggttaactg caaaaataga gcgcctcacc 120
atgaggggtca atgacttggt tggaaccagt atgactgtcc tacaggagca gcagcaaaaa 180
gaagaaaaat tgaggggaatc tgaaaaacta ttagaggctc tgcaggaaga aaagagagaa 240
ttgaaggcag ctcttcagtc tcaagaaaat ctcatacatg aggccagaat acaaaaggag 300

<210> 312
<211> 300
<212> DNA
<213> Homo sapiens

<400> 312
cccatcctat ggggtgtctt ttgacttttt ggtagtgctc ctttgaggca cgtaagtttt 60
ttaagttttt ctctgttttt tagcatcata tctaagaatc tactccaaat ccaaggtcac 120
agagattttac catgtgtttt tatctaaaag ctgtatagtt ttagaagtca gtccctctgt 180
cctaccagcc acatttcagt gatcacatga tgtggctgat gtccacagca cttgtcagtg 240
cagataaaga ccatcataac agaaagttct ttgcaaaaa aacaactttt tttttttttg 300

<210> 313
<211> 300
<212> DNA
<213> Homo sapiens

<400> 313
gaaagaaaa attttcacat gtatctagca gcaatatagt ttacaataaa ccctaggtgg 60
tataatgtga tgtacattac acatgaacta tctacactca ctaaaagcca ttattttaaga 120
gtaagctcac atagcacacc tatttccttg gtgttgcaaa gcttgagggt gcacagcttt 180
ctcattttgt agagcaaatg acagttttca tcaacagacc aatggattca cagctaagaa 240
taagacaact tgaaaactcc acgtttttaca aaatcatttt ctattaaatt ataaaaacct 300

<210> 314
<211> 262
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(262)
<223> n = A,T,C or G

<400> 314
acctcaaaaa aaatgctgat atcctaaaa attcctagta tctctaaaata ttccataaat 60
cagatatcct acaaagccaa actggtcctt cttgttaaaa ttaataagat tctataagct 120
gttaacccaa aaagtttcca ctaacactgn atacttanct ctcttaanta catnnattta 180
ngcttgctgn nantnntann nggncntnn ttgnnnnnac ttgnncnna gctattnnnc 240
acnatatccn gtgnntnagt nc 262

<210> 315
<211> 300
<212> DNA
<213> Homo sapiens

<400> 315
gctgttgcaac ttgccacgtt atcttggagc ctggggttcc ccgcgtcgcc tgtgggtggc 60
ccgctccctc gacaccatct cctcgggtgg ctcttggcgt ggctcggtcct ccaagtcctc 120

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ggcccaactgg aatcaggtag tgtcagagggc ggagaagatc gtgggggtacc ccacgtcctt 180
catgagcctt cgctgcctgc tgagcgacga gctcagcaac atcgctatgc aggtgcggaa 240
gctggtggca ctcagcacc cctgcttacc acagccaggg ggcttgtaga tgacagctgg 300

```

```

<210> 316
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 316
ctagagcaag agatcgaacg cctgagagaa gaggggtccc ggcagctgga ggaacagcag 60
aggctcatcc gggagcagat acgccaggag cgtgaccaga gggttgagagg aaaggcagaa 120
aatactgaag gccaaaggaac ccccaaacta aagctaaaat ggaagtgcaa gaaggaggat 180
gagtcaaaaag gtggctactc caaagacgtc ctctacggc ttttgtagaa gtatggtgag 240
gttctcaacc tgggtgctttc cagtaagaag ccaggcactg ctgtggtgga gtttgcaacc 300

```

```

<210> 317
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 317
gagagtggct accttaaaaa tgcaaagtgt aagaactgta acctcagagg agcaactctg 60
gcaggaactg atttagagaa ttgtgatctg tctgggtgtg atcttcaaga agccaacctg 120
agaggtcca acgtgaaggg agctatatct gaagagatgc tgacaccact gcacatgtca 180
caaagtgtca gatgagaatt ttaggggctg gaggaagatg taaaagatga aaatgttttc 240
cttatcactt ttctttctcc acccactcag ttgtctagaa gaaataacac tgtaaggaaa 300

```

```

<210> 318
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

```

```

<400> 318
tcttcagaag gtcaaagcaa aacagaatct gattttttcca acctagactc tgaaaaaacac 60
aaaaaaggac ctatggagac tggattgttt cctggtagca atgccacttt caggatacta 120
gaggttggtt gtggagctgg aaatagtgtg tttccaattt tgaacacttt ggagaactct 180
ccagagtcct ttctgtattg ttgtgatttt gcttntggag ctgtgganct cgtaaaagtcn 240
cacttgnntt acanatcaac ccangnnttt tgccttnntt catgatgant nngatgatgg 300

```

```

<210> 319
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 319
ctcaccaccc ataccctccg tccccgcggc gcctaccact atctagacac ctctgcctt 60
ctccatatgg ctccgcggga ttgtttccct ccctagcccg acttctccaa taaacagcaa 120
cttctgctt ctccagcaag tcgcataaga agaactggaa tcttgacact acaactcctg 180
acaggacgcc cctgcggcat ccagagacag ggaagccagt gctgctctgc atgttcaggg 240
cgagttagctg agagtctcct tccggcctgg atactgagga aggtgactta gactttctct 300

```

<210> 320
 <211> 291
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(291)
 <223> n = A,T,C or G

<400> 320
 gtgacttctg tggaaaaaaa attaatcttt taccattgca gcgttctgcc ctaggtccaa 60
 atgttaccaa aatcactcta gaatcttttc ttgcctgnaa ganaangngc tnacanganc 120
 agattgttat nctngaacag nactgggaat nagatcantt atgatnnntn tancggtnat 180
 tngcncnttt gtttanntat tcnnnataca tgnttntntt aattataatn ccacttttct 240
 anattatttt gtagtcggna actcaanact ttttnntca gtaagttgtt a 291

<210> 321
 <211> 300
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(300)
 <223> n = A,T,C or G

<400> 321
 tcttcagaag gtcaaagcaa aacagaatct gatttttcca acctagactc tgaaaaaacac 60
 aaaaaaggac ctatggagac tggattgttt cctggtagca atgccacttt caggatacta 120
 gaggttggtt gtggagctgg aaatagtgtg ttccaattt tgaacacttt ggagaactct 180
 ccagagtcct ttctgtattg ttgtgatttt gcttctggag ctgtggagct cgtaaagtca 240
 cactcgtcct acagagcaac ccagtgtttt gcctttggtc atgatgtatg ngatgatggc 300

<210> 322
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 322
 gccacgtttg caaaaatgca gcaaaaaagt tacttagtct ggctgttttag tagaatttac 60
 ctctactcat tcatcagcct ctttatatat atgattttta gtcttttcat tgcactgac 120
 actgatacat acgaaacaat taagcaatac caacaagatg gcttcccaga gactgaactt 180
 cgtacattta tatcagaatg caaagatcta cccaactctg gaaaatacag attagaagat 240
 gacctccag tatctttatt ctgctgttgt aaaaagtagc tatcagggtt atctgtactt 300

<210> 323
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 323
 agaaggtcgc ctctaccttg cccagaacac aaaggtgctg cagatgctgg agggaaggct 60
 gaaggaggag gacaaggata tcatcaccag ggagaatgtt cttggggccc tgcagaagtt 120
 cagtctcagg cgcctcgtgc agacagcgat gattcaagac ggccctcatct tctggctggt 180
 tgatgttctg aaggaccctg actgcctgtc tgactacacg ctggagtact cgggtggctt 240

gctcatgaac ctctgcctcc gcagcacagg gaagaacatg tgtgccaaagg tggcaggcct 300

<210> 324
 <211> 285
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(285)
 <223> n = A,T,C or G

<400> 324
 gcacctgtag tcccagctac tcaggaggct gaggcaagag aatcacttga acccaggagg 60
 cagagggtgc agtgagctga gatcacgcca ttgcactaca gcctgggcaa caagagcgaa 120
 actttgtcta aaaaanaaan cactgggctt attcatgctc tgatcacatc tntcgtaaaa 180
 gcttaagctc tntccggggt ccgggttgge cgtncctgn aattctggtn ggccngnntg 240
 nggtctctgn aaatgtggct gncngctnag ancnnnact ctgac 285

<210> 325
 <211> 293
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(293)
 <223> n = A,T,C or G

<400> 325
 gcacaccctc ccgtgggtggc tgttcctccc tgtcacctgc ctctcatca tggaaggggg 60
 ggggctatga aagccggtct caaagataac tgcctccttc attccaggaa agccctagaa 120
 ttagggcaca ttgcaaactg aaatatgact ataattctta tgggaccaa ttttaagcaat 180
 ttttgTTTTT ggctgaagag acaccaaata attagaggac aaatatTTTT agatccattt 240
 aaggagTTTT gaagtgccta ntangaccta tttgncagtg gngnnattta att 293

<210> 326
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 326
 ttgtgaacca gatgatgaaa gtggctatga tgttttagcc aacccccag gaccagaaga 60
 ccaggatgat gatgacgatg cctatagcga tgtgtttgaa tttgaatttt cagagacccc 120
 cctcttaccg tgttataaca tccaagtatc tgtggctcag gggccacgaa actggctact 180
 gctttcgat gtccttaaga aattgaaaat gtcctccgc atatttcgct gcaattttcc 240
 aaacgtggaa attgtcacca ttgcagaggc agaattttat cggcagggtt ctgcaagtct 300

<210> 327
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 327
 gttgcactgg tgctccctc cgaaccgcca agcagaaacc ggacctcaca gctgactggg 60
 aactggacat gtggaagagc tgctggctgc atcaggaac aggaggagga agagggtcag 120

ggtggagagg	aagatcagtc	agtgggcaca	agacagtcaa	atgggcaagg	cctgcctcgg	180
ggaactagaa	ccttccagga	tctggagccc	gggagagcca	cactgtgggc	ttaatgtgaa	240
tagaggaaca	agtgggtatc	tctgccaggc	acccactttt	ctcctagtaa	catgggctca	300

<210> 328

<211> 300

<212> DNA

<213> Homo sapiens

<400> 328

ctggtcaggg	tttgactcag	gaagctgagt	tccagcttgt	ttccttggca	gcactgccaa	60
agagtttagc	caagctgcag	cttttgaggt	gaaaggggat	ggaagaaaagt	actgttactt	120
ttccacttag	aatttttggg	ctttgttctt	aatgaatagg	ttcattttca	atttcaaagc	180
aaagtgttaa	catttttgaa	atttgtctca	attctaaagg	ccaaacttaa	atatgtctcc	240
tcctactggg	gcatggagca	agttattcat	caaatacaga	ttctcgcatg	gaaaagaaaag	300

<210> 329

<211> 300

<212> DNA

<213> Homo sapiens

<400> 329

aatggatgct	catatattgc	ttatggatat	tttggatacc	aaagtaggaa	taactgacat	60
tcagtatttt	aaagctggca	aacctgtaca	tagaaaatag	atccccagac	agtggctctat	120
gaagagggca	gttaagtatc	aaataacttaa	ttttcttgcc	tttttttctt	aagtgggggaa	180
aagtttctag	atctcttaca	cctctgacac	aatctgttct	aaaacaggca	cttgtaatgt	240
tggggcctcc	ttgtaaacgg	tgtttttgcc	ctttactctc	tgggattaca	ggcgtgagcc	300

<210> 330

<211> 300

<212> DNA

<213> Homo sapiens

<400> 330

gccaggctgg	tctcgaactc	ctcacctcaa	ctgatcatct	gcctcggact	aagtgcctggg	60
attacaggcc	tgagccaatg	cgcccagcct	actttctata	aaagtcgtca	tgtctctgcc	120
cccaccccc	gccaccccc	acatagtctg	tttcatttga	ttttccctt	agtttagtgt	180
tttattttga	tgtttcttca	gatgccttgg	gatcattcac	tgttcctcat	atttaagagc	240
aaatgcttaa	aaattcttag	aaataccttc	ttgaaaagcc	tgcatctcta	ccacctctca	300

<210> 331

<211> 300

<212> DNA

<213> Homo sapiens

<400> 331

tcgagaccag	cctcagtaat	gtagtgcagc	cccatctcta	caaaaaaata	aaaaataaaat	60
aaaattttcta	agtacttgtc	tatttgcagt	ttactattct	tgctagaatg	tatctcttca	120
gggttttggg	gtttacctat	gcccccttca	attttgggtt	ctctcaaatg	ccagatgtat	180
ctcctagaac	tctttgggat	tttttagctct	ctaatacctt	tagacattta	aaaaatatat	240
attttgggatg	ttttagttat	cttcagagggc	aatgttaatc	cgaattatca	aggtagtcat	300

<210> 332

<211> 300

<212> DNA

<213> Homo sapiens

<400> 332

gaaacgctga	ctctgcctct	tagccccctgg	gttgaagccg	actagagaa	ctcagacgtg	60
cttaaccggt	ctgttgggct	tccctgccct	tttccagtc	caggtttct	ttccctgctc	120
ccttcctgct	tctaatttca	gccaaagaga	aagcaaagat	ttagaaaaga	agggtaggaa	180
gaagctggaa	tttgaattgg	caagagaagt	ttgaggttgt	cttttctaga	tcaaaacaat	240
ttttaatagg	ctgatgttca	catgttgcac	tttctaaagc	ccgtgcttga	cctcctaagg	300

<210> 333

<211> 300

<212> DNA

<213> Homo sapiens

<400> 333

ccatcataga	gcatttaggt	tcttttctact	ttctgttgtg	aataatgcaa	tgttgaatct	60
gagttcatta	agtgaagagt	ccagctgcac	actgcaggcc	cagtctggat	gtaggtgctc	120
agatgggttct	ctttgagaca	ggcttttatcc	tttggctctc	atttttttga	tgagtgtaca	180
tggcatgagg	gacacagatt	ccgctagaat	tcaaatecca	cttgtgtata	acctagggca	240
gtgtgccaca	tctctgcaca	tctgttcatt	gtaaggatta	catgtttagt	gtatataaag	300

<210> 334

<211> 300

<212> DNA

<213> Homo sapiens

<400> 334

ctgggaagga	ataattcaat	ttgattggca	gatatatata	atacagtagg	agaataatgg	60
gagaaagata	aattgagact	agaataggta	gactttaaat	gcctgtctgg	tttaggtatt	120
tgaactttca	agggtgtgga	aatgtttgag	ttaaaggaata	atgtgtccaa	agattattat	180
ggaattgtct	ctctgcatac	ctctatcgct	gtttgtcaca	gctgtgttct	tatgtgactg	240
attcttctctg	aagattagaa	actcctcaaa	gactgggttat	tagagcttat	tcttcattat	300

<210> 335

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(300)

<223> n = A,T,C or G

<400> 335

gttgggaagt	cctaattctt	tcctcggtta	actgtgaaac	tctgcgtatt	gggaaggcct	60
ggcctcagtc	atcaggccag	gagaggtagt	ggacgccgcg	cacgcactcg	tctgccagcg	120
aggcccaaaag	gggaagccta	gcggagctca	gtgtggcagc	tgctggcctc	tgggcccgtt	180
gtgcatctaa	tcatccaaaa	aattcagctc	anaacctgac	ttaaagatagt	actttaaaac	240
atgaaggctt	ctattcagag	aacttaactg	aatctagaaa	attcctgaaa	agtagggaaa	300

<210> 336

<211> 300

<212> DNA

<213> Homo sapiens

<400> 336

gagatttctt	ctaattggcc	aataatatcc	ttcagttctc	ccacctccaa	tatccaaagt	60
tctgtcaagg	atcacatact	acatttgggt	ctttattata	gactttttta	atatcgttgt	120


```

ataccattgt gattctatcg tctcctttaa taaagaggag aaccagaaaa atgaaaggtc      180
ataagaggaa tgagggttgg agaatagggtg aaaaaaggca tcataatgtt tataataatg      240
ttgcctgtt  cagagaaaca agaatcacag ataaagtcac ttatatgtag ataagagaat      300

```

```

<210> 337
<211> 268
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(268)
<223> n = A,T,C or G

```

```

<400> 337
gctaaacatc aaaaacagat ctggtagggg cgggggaaatg agggggaaga aacatangcg      60
tgntgggtgcc nttatnctgc attannaact ttanttcnat gtntgtnttn ttntttcntt      120
nancgnance ttttatttat nttttttcct ttttctnttt nttattnttt tnntntttatt      180
ntttntgttn tttntttntt tttttttnat gntntnantt tgnnttantt ntntttcttt      240
cnntnttttn tattatcttt nttacttt      268

```

```

<210> 338
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 338
gggacccagt ggacttcttc ctgctgggtg tggtagtagg gatgggtact atgggcattt      60
tcttcagcac tctgtttgtc ttcattggact caggcacctg ggcctcctcc atcttcttcc      120
acctcatgac ctgtgtgctg agccttgggtg tggctctacc ctggctgcac eggctcatcc      180
gcaggaatcc cctgctctg cttcttcagt ttctcttcca gacagacacc cgcattctacc      240
tcctagccta ttggtctctg ctggccacct tggcctgcct ggtgggtgctg tccataatgc      300

```

```

<210> 339
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 339
gtcaccaact tgaaaccagc aaccatcaag gtctatgact actacctacc agatgaacag      60
gcaacaattc agtattctga tccctgtgaa tgaggatagg agctggaaac tcaattagtc      120
ctctgtgaca ttactggagg gtggaacatt cttctgtcgc ttgaagcaga actcattcaa      180
tcaaataatt taatttctct gactagtata tgggtaacaa atgaatatgt ctgaacctca      240
gctataatac tttctactac ctttgcaagg agatgggata ggaacaatca ctcagaggag      300

```

```

<210> 340
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 340
tgacacaaa tgccaaccca tcccaaattt acaacatcga cctgccccgc ttcaaagatc      60
tcaacctggc tggaacagcg gaggtggggc ttgcaggcta cttcatggac cacaccgtgg      120
ccttcagggg cctgccagtc aggatgggtt gctccagcac ctgctaccgg gcagagacaa      180
acacggggaca ggaacccccg gggctgtatc gactacacca cttcaccaag gtggagatgt      240
ttgggggtgac aggcctggg ctggagcaga gctcacagct gctggaggag ttctgtcccc      300

```

<210> 341
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 341
 atcatattca agttggcagg tttgactggt cctctgcacc agacatctgt agtaatctgt 60
 atgtttttca gccgtctcta gcagtattta aaggacaagg aaccaaagaa tatgaaattc 120
 atcatggaaa gaagattcta tatgatatac ttgcctttgc caaagaaagt gtgaattctc 180
 atgttaccac gcttggacct caaaattttc ctgccaatga caaagaacca tggcttggtg 240
 atttctttgc cccctggtgt ccaccatgtc gagctttact accagagtta cgaagagcat 300

<210> 342
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 342
 ctggacagaa gtctattctc cttctcagca gcggtggctg cactgtgatg catgtgaaga 60
 tgtctgtgac aagccactcc tttatgaaat aggatggggc aagaagcttt cctatgtcat 120
 agcattttca aaagatgagg tagttgatgt cacttggcga tattcctgca aacatgaaga 180
 ggtgattgcc agaagaacta aggttaaaga agcattactt cgagacacta ttaatgggct 240
 taataagcag aggcaactgt ttttgtcaga aaacagaagg aaagaacttc tccagaggat 300

<210> 343
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 343
 gagctgatcc tgcattcatgc ccggggccagc gagtgcaggg acgtggaggg gttcaaaacc 60
 gagatggcca tgctggtgac ccaggccagg aagaacacca tcaccctgga gaagcttcat 120
 gtgtccagcc ttctctctag tgtctttaag ttgctgatga ctcaacaagg aaagcttgag 180
 agcaactttg cctccattgt gtttgccatc atggtgttgg aggggcttgg ccgctcactg 240
 gaccccaaac tggacatcct ggaggcagcg aggcccttcc tcctcacggc ccagtgtgcc 300

<210> 344
 <211> 265
 <212> DNA
 <213> Homo sapiens

<400> 344
 gtgacctctg tgtttctata actatgttaa tgtgacctgt aaaacagttc acttctcaac 60
 aagtcagctt cctcatattt aaaatgagaa gttgtcttga gtttctaaag atgtttaggg 120
 tgcattgtct tgggcctgct caggattttg acctctgaga taaaagctgg atttaaaaag 180
 ccaatccaag ccaaacacct ggcattatta gcattgttat tccatcagat ctgtttgttc 240
 tgataaagaa gctgggggtg gaatt 265

<210> 345
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 345
 tgacatcaat gaggttgaagt ctactcctct catggaggct gaagaaacat ttgctgagca 60
 ataatagaac ctgccacaat tatgtttctg atggggtagg acgggtcctt gcaggagtag 120

```

aggggtctgcc tggagggcat gggtaagaat catggctcat gatttgtgtg ggacaagtgg      180
tcgcagagca gaggctctgg gtaaggagac ctggtttgag ttataacca gagacaggca      240
gttcaccaac tgagtctcag tttccttatac tggaaaatgg gaataatttg tcttctctgg      300

```

```

<210> 346
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 346
gtaggacagc ctttggtgaa ggagacactt tggagagcat ggtgtgtgaa aacacttaaa      60
ggaaaattaa aggggaattaa gaggaattg aaggggaagga gtatatgaga agggttgctt      120
tgtggttata agctgaattt tctttaatgt attttgaaag accccggtaa agaaaggaat      180
ttcttttaat ttgacagaga atgaggagtt gtccaattag gtgttgaatt gttcttctct      240
ggaactctca agagaggagt tgtgtttaga gatagatttg ggagctgtaa gcaagtagat      300

```

```

<210> 347
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 347
cttttagcaag tcactcgagg tcatggaaca tgtttttgaa gaaataatat cagttcatga      60
attctgtacc tgtttcttgt cgctgaaggg gtaagtgaca tcagcagcat gttcattcct      120
tttcttgtct tctacctgtt ctccacaaaa gtataaaaag ccagaattgc tttttgggtt      180
ttgagatggc attgtcttcc atttgcaaaa aacagtttat aagacaaata ataaagaaat      240
tgaaatgttt ctgatgggtt caaaaatgta aacataagcc agagtagtta tgtctcaaca      300

```

```

<210> 348
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 348
gtttaaagaa aacatacaag ggtatgacgg agatatgatt aggagagggg atgctttttg      60
agggcagaat tgccaatctg cttgtacttt ataagcctgt tgattgttta gatacggttt      120
agccagttta tagttaccct ggggtgctgaa aggtatgctg gatgatacct aaccaacaga      180
gaaccattga atgccgttca aaatggactg aagcatcagc aatgtctgaa aaaggcctga      240
cagtaatgta catgtcaaat ggcccgtaat ttaagcagag tagagtaagt agaagaataa      300

```

```

<210> 349
<211> 299
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(299)
<223> n = A,T,C or G

```

```

<400> 349
gggtggatgtc agagtccggg ggcagctccc gtggggacct ggggtgtgtg gctgggtgaa      60
gacgatcacc tcccttctgt ggttttatcc cccaggctga gtttgagccc ccaaggctcc      120
tgtcggttct ggtttgtgat tggtccctcc gtgccccatg cgcattgcca gccgccaggg      180
agattaggcg tttgtagtaa gtgatttcac tggccctggg gggacagatg ggtagacagt      240
gtttgatccc angtctttgc agggctctag cccctcgcaa gcttctgcac cttctctgc      299

```

<210> 350
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 350
 gtctcatggt agttgtaccc acagctctca tcagaagcag acacagatac tttttgtagg 60
 aaaacatctc taacttaagc ctgtaggatt cccaaagatt aaaagcaggc aaatatgaat 120
 tcagtcaaat catagcattc aagtagtctc aacccaacat atttgagaat tgtagaaac 180
 aatgaatatg tttcccaaaag actagggtttt ggaattatca gatacagaac acagacttca 240
 aatattagaa ttgtgagaaa atagttacat gtcaaaccta atataaaaaga aagatggact 300

<210> 351
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 351
 atgcttggtc gcattgccaa gtggcaaaaa atacagttat tgtagcaccg aaacagcacc 60
 ttctcaaggt ggaaaatcca tggagttagg ttactgttga tctgatgggg ccttttcata 120
 caagcaacag aagtcattga tatgtataaa tcatgacaga ttgtttcacc aaatggattg 180
 tgattttgcc tctatgtgat gtttcagcat cagaagtttc taaagctatt atcaatatat 240
 ttttcttata tggacctcct cagaaaataa taatggacca aagagatgaa ttcattcaac 300

<210> 352
 <211> 300
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1) ... (300)
 <223> n = A,T,C or G

<400> 352
 ctggacttgg gctttttctt ctatttgctg ggtagaaaag tccttaaagt ggatgctcat 60
 gttcagtggc ctgggcatat attgtttcac tggatatcaat aatatttttag gatataattt 120
 tctagcagct aggttttaca tgtatataca ctatgggttc gatataaatt acccatctct 180
 ctatattagc ccagttagct agtacatgga taagtcatta gataatttgc taccatgta 240
 tntgtntctat taagangtac ntatanttna actaccaanc natntgtacn ntgcatttat 300

<210> 353
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 353
 aaacaactga aggtcaaaaa cttatatgcc tttttatgtg tacatttaat aaaacaattt 60
 tattgatttc ttaccgtaag ttactgtgat gagtgataaa tacttcacta ttcagatact 120
 ttcgtaagag atacatttca gtggaacact ttgcataaat attttctcaa aaatgtgcca 180
 tttctgggaa aaaagggaat gatgggaaag aatgttattg cagtttttcc tagaaaattt 240
 gtcagattgg catgcatttt tattgactaa gaatcccaat tttagcatga agaccattag 300

<210> 354
 <211> 300
 <212> DNA

<213> Homo sapiens

<400> 354

gggaagtgtg	tgttcaaata	tgtagtgtgt	ccagtcagca	caaacgagga	aatgatggca	60
gagttagttt	aataaaacag	agggaaatcta	cgtttaggtat	catgtatcgg	agtgaactgc	120
tttctttttat	caaaaaatta	cgagaaccac	tcgttttgac	tattatttta	tcactctttg	180
tgaaacttca	caatgttcgg	gaggacattg	tgaatgatata	tacagctgaa	cacattttcta	240
tttggccatc	ttccattccc	aacctccagt	ctgtggactt	tgaagctgtg	gcaatcacag	300

<210> 355

<211> 300

<212> DNA

<213> Homo sapiens

<400> 355

gggagacctta	tacctagatg	ttgctgaagc	ttttctggat	gttgggtgaat	ataattctgc	60
acttccccctc	ctcagtgctc	ttgtttgctc	tgaaagatac	aaccttgcat	tagtttggct	120
tcgtcatgca	gaatgtttta	aggccttagg	ctatatggag	cgagctgctg	aaagctatgg	180
caaggtgggtt	gatctggccc	cactccattt	ggatgcaagg	atttcacttt	ctaccccttca	240
gcagcagctg	ggccagcctg	agaaagctct	ggaagctctg	gaaccaatgt	atgatccaga	300

<210> 356

<211> 292

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(292)

<223> n = A,T,C or G

<400> 356

ccaagctgaa	ttccagattc	tgaaagctga	gctggaaaga	accatagagg	anaagcaaga	60
gttaaaagag	aaactgaagg	aaacagagac	acacctggaa	atgctgctga	aggctcaggg	120
ctttggcaaa	gcttacgcgg	ctacgtatcc	acgtcagcta	tctccttact	tctgtcctcc	180
ctcacttgga	gcttcangag	atcggctatg	actcagaaca	agtgnatggg	atcctgtaca	240
cggngctgga	ggcaaatnac	atactgnatt	gancaccaga	ctgnataccc	tt	292

<210> 357

<211> 300

<212> DNA

<213> Homo sapiens

<400> 357

gctaattgga	aaatactgga	agtcccttag	gtattccact	gcagtagtat	cataagccta	60
gaaaatctgg	aacaattctg	tgagggttta	gaaaaaggga	cattgaattc	agtctctagc	120
agtatggtag	atgagactca	atgaacaatc	ttgtcacaaa	ccaaggacat	catctgaaaa	180
aatgttttta	gtcttttgaa	atgatctgtc	aagaaaacag	ggaatcatca	gacacaaaaa	240
ccaaagtgtg	agtagcagag	gtcagtaagc	actcaagggtg	gccccaccct	ggagggtttct	300

<210> 358

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature
 <222> (1)...(300)
 <223> n = A,T,C or G

<400> 358
 agcacaagag atgtaaaaaa aaaaaaaaaac cccncccn cn gnggaangnc ccttttnagg 60
 tttngntng ttttttttn ggtttnnttt tntgtttttt taatnntggg gataaccnt 120
 gatgncnggc tarngtncat atcnggtctt ttnagntagt gggctctttt aananntntn 180
 ngctnaaann ttaactnata aaagggttnga gccnccgtan catncgncna anggnacca 240
 ngcatagana aaagganatt cnnccctgt gtatgaatga gcnggtcaga ttcaaggcag 300

<210> 359
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 359
 agtttgtggc agctggagat cacctagtcc accactgtcc aacatggcaa tgggctacag 60
 gggaagaatt gaaagtgaag gcatacctac caacaggcaa acaatttttg gtaacaaaa 120
 atgtgccgtg ctataagcgg tgcaaacaga tggaatattc agatgaattg gaagctatca 180
 ttgaagaaga tgatggtgat ggcggatggg tagatacata tcacaacaca ggtattacag 240
 gaataacgga agccgttaaa gagatcacac tggaaaataa ggacaatata aggcttcaag 300

<210> 360
 <211> 270
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(270)
 <223> n = A,T,C or G

<400> 360
 gttttctcgg cagatctgca aggctggctt taagagcaca aggagggaaa gtaacgaaag 60
 ggctggacta ctataaaagt taaaaatagc tagtttagacc aatagattta tatagtcagg 120
 tttttgtcat gtaattttatt aactaactat tacagaaaca cagctaagaa tatcaagtat 180
 ttctctggct cttgacagaa aaaaatcagt tgacttaacc ctttgctgca naanagttgn 240
 cgttttctgcg ttggntgcta ctgctaactg 270

<210> 361
 <211> 152
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(152)
 <223> n = A,T,C or G

<400> 361
 ggtgcgttag catctgaacc actgaaagtg agtgatggct tttatggtag tggagagacc 60
 tttgttttta cattctgtcc ggagtttgag gtctttaagt ggacaggaga taatatgttt 120
 tttatcaaag gagacatgga ttcactanct tt 152

<210> 362

<211> 276
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(276)
 <223> n = A,T,C or G

<400> 362
 tcattggtgct tgtaagtgat gacaaaagct ttaataactg gcacactagc ataatataga 60
 aatcaatata tatcaatgta aaatataacc ccccttttatt ctgtaaataa atacacacaa 120
 gcacatgtat attatcactg tttatagcac aaattatcac tctaatttcc aatttttttaa 180
 ttgattttttg gacattctga agagtattct tgctactagc taaatgatct ccatttccgg 240
 gccatgggtt gacatangga aagncagcca aacctt 276

<210> 363
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 363
 gtatgcccct tcagaacatg cagagtgtat ctttttttaa atttctcctt ccgttgctta 60
 agtattgctc agatttgctc aactttgcaa atatggacat cacttttttt ttctttgaga 120
 aaacacttgt atcagctttg tgggtgtttc agggagaccg ctgatggcag tccgtgtaaa 180
 aaccagcaa tgattatgca cgtggagaca tgtgcttttt atttcttagc aggatatttt 240
 atctctgtac ataaagtaga aaccaaaaggc tagggaaaca gatactcttt acaccatcat 300

<210> 364
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 364
 gtgagccgag attgctctag tgcactccag cctgggcaac agagcaagac tccatctcaa 60
 ggaacgttaa aaaaaataaa aattaaaaaa aaagaatatt taggaaattg gatattttct 120
 aggagaatta cagaagaaag gtagtaaaaga atggcaagggt tatatttggt aaagacttta 180
 atgtctagag aagagttgac actagggatt tgggtaacca tcaatagtt ctaagtaagg 240
 ataaaatttt atcactatta ttacaataag cacttactaa catgatggat attatgatac 300

<210> 365
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 365
 gtcactttac tctccatccg gagccgcttc ctttctcgcc gcgaggctcg ggggtggggg 60
 gggaccagat tggagccgcg ggctaactgg gatccgtccc atttccctgg gcttgacgtt 120
 ctctgaattt ttagctaatg tggaaagtta catttatttg catttggtta tcgcttgctc 180
 acataggtct gtgtcccga gcttggcaga tgagcgaact tagccagcac acccccggcc 240
 gtgaagcagg gaggtgaagc ggggagagca acgagcccca cccgggtctt gccagctgga 300

<210> 366
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 366

aacacttttta	gttgctctat	tgattactta	gattttttgtt	ggcaattagg	agctttttcag	60
taacatttctt	tgctccatcg	gtagtctctg	ctggctcttg	ttcactcagg	aaacacctga	120
gcacagggct	tcaggaaagc	cttctattaa	atgggcagag	gccccagcag	gactcctgca	180
tgttcatctg	cacagccaga	gacagctgga	gggcaggagg	agccgcgttc	acatagggtt	240
ctgcagcctt	ggagccgcgc	tttcttccaa	gtactcttca	gatcagcggt	tcttagccct	300

<210> 367

<211> 300

<212> DNA

<213> Homo sapiens

<400> 367

ccagcacctg	ctgtgctggg	aaggccgagg	atggggggccc	agcactgtcc	aggcctgctg	60
gggcctggct	gggagtcctg	tgggcagcat	ggaacatgca	gctgggcttc	ctgtgaccag	120
gcacctctg	gcactgttgc	ttgccctgtg	ccctggacct	tttcctgccc	ttctccttcc	180
tctgtccctt	tggggctacc	ccttggtccc	tcttggtctg	tgcaaaactcc	ctcagggagc	240
ccccctgccc	tgtagctctc	acttaacttc	ctaggggctg	ctgagcccac	ccagagggtg	300

<210> 368

<211> 300

<212> DNA

<213> Homo sapiens

<400> 368

gttcttttga	acagtaacag	tctaggatct	ttttttttct	gagatgattt	ttgaatgctt	60
ttgtgtggaa	ccacatgcat	cataatagat	acaaatccat	gaaagtataa	cagttaaata	120
ctagatctta	ctttttcagg	ttttgatttc	tcactctaaac	tttccaatgc	tttatcagtg	180
aagcaacta	actcacattg	actagcctgc	tctcctttag	caaacccttc	aaataaatgc	240
ctcatttgct	cctcaccact	atcatttttag	attggccaga	cagttgttac	ttacctttta	300

<210> 369

<211> 300

<212> DNA

<213> Homo sapiens

<400> 369

ccaaagcaca	caaatggcct	accatctttt	attcttccct	ctagcttctg	gagagagaaa	60
tgattgttcc	agtttagaat	gccaggagtt	tactgggtgt	ttgtattttt	tatctgtgcc	120
ttaaaaaaat	tagattataa	tgaacaagac	atctttatgt	tttacaggga	aggaaaaagc	180
agtgaagta	tgcattttctg	aaagaaaagt	gtgttgggaa	aagagagaga	gggtggaaac	240
ccaaaggaga	aataaaaaatt	ttaagtcctt	gttgcagtag	ctggagggaag	tgagcttgga	300

<210> 370

<211> 300

<212> DNA

<213> Homo sapiens

<400> 370

agagtaaaaa	tagaaatgtt	cttttttccca	gaaaaaaaat	cagtaagctg	gtacagataa	60
ccataccaca	ttgcctgttt	ttccaaaaaa	ttacattttg	gtgatatcaa	atgcaaatat	120
ttgaactgca	ttgacagaag	tcaggcatgt	ttagagagtt	agtaaaacttt	ttcagaccac	180
agatcagcat	taagtgaat	actgcttcag	ccactgatac	cttcattggca	gataagtatt	240
atactgactt	cttttttagag	acacttctgt	tcacacacaa	gacacagaat	ttgttgaata	300

<210> 371

<211> 300
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(300)
 <223> n = A,T,C or G

<400> 371
 cgccatgttg ccagggctgg tctctcctga gctcaggcaa tcggccacct tggcctctga 60
 aagtgctaga attacgggca tgagccaccg catccagcca gaaagataca tatctaattc 120
 tagaaatagc atgcagtatc agtcatagta acagccatgt gctgcctaaa ataaaatttc 180
 ttgaaatggg gaattaaccc tggagtattg agctagtttt ttgggtttgg ttttttgggg 240
 ctgaacattt gggcctaata ctttgnntnn tnaaacntt taaaaaannn aagggtttgt 300

<210> 372
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 372
 tttagatgaa gtgctgagaa tathtagaaa aagcgcttta aaaagcatct agagattatc 60
 atgaaaataa ttggagacaa agtcactagg ctgctttgtg agaggcagca taccatggct 120
 ctaaaccctg tcacaaaaaa caatgttaga gacattagga attcagggtt tgaaaatctt 180
 tttttcgatt tttttgtaat ttacatacca aaaaaccaca ttaaaatagt cctcccttca 240
 acatggctat cttttttcaa gttttatatg catagctctc tcagcacttg aatggaaaaa 300

<210> 373
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 373
 ctgaaatgct gacaagatgt ggcattggta agttgctact ctttgattat gacaagggtg 60
 aactagccaa tatgaataga cttttcttcc aacctcatca agcaggatta agtaaagtcc 120
 aagcagcaga acatactctg aggaacatta atcctgatgt tctttttgaa gtacacaact 180
 ataataaac cacagtggaa aactttcaac atttcatgga tagaataagt aatgggtggg 240
 tagaagaagg aaaacctgtt gatctagtgc ttagctgtgt ggacaatttt gaagctcgaa 300

<210> 374
 <211> 296
 <212> DNA
 <213> Homo sapiens

<400> 374
 cttgtgtttt cttaactccc ccagtaatag acctaaactga ttttgttttg agaagttcgg 60
 tattagctta agtttttgtt cgtttataga atatcaaaat ggtatcaaaa ctgtttaaaa 120
 ggtcaatgta catctgtagc agagcttttt actcttttcc ttgtcttctt tctctttgtg 180
 tatatacatt gtttatagtt gtattcagta tacatgaaat tttgtgtctt ttttactcct 240
 ctctgtataa actttctgtg ctgcaacaat gtaaattaca ttcagggttg ttccag 296

<210> 375
 <211> 287
 <212> DNA
 <213> Homo sapiens

<400> 375
 ggtaaaaggt ggagaccatc attgtggaat cttgtatttt ctattaaggt ttgtaatagt 60
 cctacaaact tgaacataaa tttttaatat ttgggaagga acattcactg aagaattgat 120
 aatagactaa aaaataacct gttatcaatt aatacatgat ctgtccttga acacatattc 180
 accattatgt aaacctcaca ttatttcagc ttattttattc cacagatacc aatagacatg 240
 ttttcacatt gtatcatctc ccaaatacaa atactttctaa aaattgg 287

<210> 376
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 376
 gactatgcag gtctatgggg aaaccttttag tctgctttaa gaaaactcag tatctgaaaa 60
 tcttaactta gcatgtgata ctgtcttatac agcatctgca gaagtgccaa agccactgct 120
 agacacttaa tgtgtattat ttcatttaatt tatatttttaa atgtgcttcc ttggtaattc 180
 ttaagctcga gaaagagttt gagaactgct gctaggaaat agagattcac atttaaccct 240
 gtgggtacttt taagaagcag gtacgttggt gcataataac ttgggtagag attggtaact 300

<210> 377
 <211> 300
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(300)
 <223> n = A,T,C or G

<400> 377
 ataacatttt tgcaagtctg aaattatttc aaaatcaaaa gagactatca aattacagga 60
 ttaataana ttggattntt cccatancaa tttaatgcc tttaaaaaca atgttacatg 120
 attacttatt aaaagaatgt gctngccgct tttctgctgt ctggctgact tggaggcctg 180
 agattanatg gtacccttgt gttcttttngg tgggtggttat aancanggat cctcancatt 240
 tctctttttt gnatcttgcg attccgnctt caagctattc cccacctgca cctccccctt 300

<210> 378
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 378
 ctcttgccct gcttaacccc tctctgtgcc tccccagtgt ccctataaca aagcccacac 60
 tctttggccc ttgctaaacc ttcctgaccc ctctcaaacc tctgggaccc cttccctggc 120
 catagccttg cctgtgttg ctcccttggc tgggaatact cttcctcctg ctccattttg 180
 ccaggccagt tcttaccat tctcatggca aacatccctt cccaaaagac ccaacgcctt 240
 ctccaggcca ggtcatcccc cagcctcctt cctatgccct ctcaggactc tatagttctt 300

<210> 379
 <211> 258
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(258)

<223> n = A,T,C or G

<400> 379

gggagctgca ccacaaacgt ctagctctca gcagagctgg gagcaaagcc tggccgcccc	60
ccccaacctg gggctgctc ccactccgtg agatgcttct gtctctgtt cactttgtgt	120
ggtagtttct tatttnccaa tgcattctnat tngatcatta ctgngacctt ggaaatcnc	180
atgntanggn nancnntnna gnnngncntat attntaaaan cttttgtnatn ttaagnctcn	240
tantttngtn ntctggnt	258

<210> 380

<211> 248

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (248)

<223> n = A,T,C or G

<400> 380

cccaggcctc cccgaaacca aaggggaagg caggggtggg gccgtggctg aagccggctc	60
ccccacaaa atgctgcacc aaagctcggg cgccgcgggc acggctgctg cagtctcttc	120
ccagcctggc cctggcaagg ggcggtggg cgctgccagg cgggtgcttc tcgacgcact	180
tgctcccggg ggctgcgccc cggcgcctgg aaccgagnt gggaagaacn gntngnnna	240
nccttggt	248

<210> 381

<211> 300

<212> DNA

<213> Homo sapiens

<400> 381

tcaccaacca gatgagcatc gggcgcgagg agctgccagc cgaggagtcc aaggccaagg	60
tggaggctgt ggtggagaag ctgggggtcc ccttccaggt gctggtggcc acgcacgcag	120
gcttgtaccg gaagccggtg acgggcatgt gggaccatct gcaggagcag gccaacgcag	180
gcacgcccat atccatcggg gacagcatct ttgtgggaga cgcagccgga cgcccggcca	240
actgggcccc ggggcggaag aagaaagact tctcctgcgc cgatcgctg tttgccctca	300

<210> 382

<211> 300

<212> DNA

<213> Homo sapiens

<400> 382

cattgttgta tcagtgggtg ttgatgaaga aattgtttat gccaaatcaa ctgccttaca	60
gacatggctc tttggttatg aactaactga tactatcatg gtcttttgtg atgacaaaat	120
catctttatg gccagcaaga aaaaagtggg gttcttgaaa cagattgccg aactaaggg	180
caatgagaat gctaattggg cccctgccat cacactgcta atacgagaaa agaattgaaag	240
taataagagt agctttgaca aaatgattga agccattaaa gaaagcaaga atggcaagaa	300

<210> 383

<211> 279

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature
 <222> (1)...(279)
 <223> n = A,T,C or G

<400> 383

ctgaagggaa	cccacccacg	ctccttcctt	cccaagagac	tgagcgggcc	atggagatcc	60
tcaaagtgtc	cttcaacatc	accctggact	ccatcaaggg	ggaggtgtng	gaggttnttt	120
atgttatttt	ttnagntngt	ttntttnttt	ttgngttntg	tttttttttt	tttttttttt	180
ttnatnttct	ttntttnttt	ntntttnttt	tttatntntt	ttttntntct	ttntttntnt	240
ttntttnttt	nngtnttttt	tttattnttt	ttnttttttt			279

<210> 384
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 384

ggaagacata	acagtgttgg	tgactccaga	gaaaccactt	cgacggggcc	tctcccaccc	60
aagtgaacca	aatgcagtgg	cacctgcccc	ccaggggtgtg	aggctcagcc	taggccccct	120
cagtccagag	aagctggagg	agatcctcga	tgaggccaac	cggctggccg	ctcagctgga	180
gcagtgtgcc	ctgcaggatc	gggagagcgc	aggcgagggc	ctggggcctc	gccgagtga	240
gcccagtcct	cggcgggaga	cctttgtgct	gaaggatagt	cctgtccgag	acctgtgcc	300

<210> 385
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 385

actgggtttt	tgttctgtgc	ctccagtatg	tgcataaggaa	atgtgtcttt	gaatgatggg	60
gaagctgtgg	aaacgcacta	ccaaaaggag	gtttcatacc	ctgttcacct	aatttgtgtca	120
cagaaatcag	aaaaggaaaa	tctgtgtcag	tgaatttcac	tgtatcgta	acctccaga	180
ttgggggatc	tgtggagtca	accaaccttg	gatcaaaaat	atgttgaaaa	aaaatttgca	240
ttcatactga	acatgtacag	actttctttt	cttgtcactg	ttccataaaa	caatacagt	300

<210> 386
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 386

gggaaaaata	cccagttttg	atctttttta	gtctgggtgc	ttactggatg	tcaaggtaga	60
aagtgtccaa	caaggtgctt	taactatagg	ttgagttctc	aaaaagggtta	agagggtaga	120
gttatagtga	catcttcagc	atatatagta	gttgaggcca	gtggaaaatt	tcccattgag	180
agctctgaga	ggaaagtatt	ttagaagcca	agggaaaaag	gagtattgag	aaagcgtag	240
atatcacaga	aaaattagat	tggtgatttc	taagacaagg	atataaccgt	taggatgtca	300

<210> 387
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 387

caaaaaataat	agaaaaaaa	acagaatttc	cacaaacccc	cacctaat	atctgcctcc	60
tgccatcagt	gccaatatac	tgtgcttttc	ttctgtggat	acattattta	ggccactatt	120
cagggccaac	ccctccacct	gcctactaga	ggccatcacc	acttgtttat	tcaagggcac	180

agctccaggt agttttcctt ctcttgggga tcatcagttt ccttctgtct accaggtcat 240
tcccattagc atgtttttgc cgcttttctt aagagataat atctcaaccc taattcctcc 300

<210> 388
<211> 300
<212> DNA
<213> Homo sapiens

<400> 388
ggattatctt gatgatgggtg actcattatc agtgcttttg tacttttgat tacctgtgtt 60
tcagtattag tgtcacttta gtacttcaga tcttgcaaat atttttgcag atgaagtatg 120
tatgtatgtt actaagttaa acttagaaac agaacctcat tcagttttta taatgtatgt 180
ttgcaaaacta ctgtaaatag caaatcaatg ccaatgttaa acaaagagga aaacgttgtg 240
tggactttgt tctcttgacac cggatatttca ggaacatctg cttgccatcc ccacagctct 300

<210> 389
<211> 300
<212> DNA
<213> Homo sapiens

<400> 389
tttttatctt gaaatacttg gctgacttac aaaagacttc ccctcacact tgacatgatt 60
gacaaaagct gtttgcagtg tttcctgcac gatgaacacc aggaacctgg gaagtggagaa 120
gaaccttggg atgaagtcac cctgctggaa tgacctggct ttcaggctga ctgccaccgc 180
ccccatgggg aacctatctc cactgctatg gccagctatt tttttcgagc caggctctcg 240
ctctgttgcc aggtctggagt gcagtgggtgc aatcactgca ctgatcctcc cacctcagcc 300

<210> 390
<211> 300
<212> DNA
<213> Homo sapiens

<400> 390
atccctacct agaagagaat agatgggaag agaactgaaa gaaagaattc ctcaagcact 60
gaagtcagga aaatccccgt aggcactgta ttagttgttc catttatccc agcactccac 120
ttgtggatga aggagtgtga tagaaaggag atgagaaaaat ggcaggagtg gaagcagcca 180
agaagagatc gatgactgaa gatctccttc accttcagga ctgtctcaag gggttatttc 240
acctctactc atgaggatgg ccagtttttc tgtcttttat ctttagacct atatataatc 300

<210> 391
<211> 300
<212> DNA
<213> Homo sapiens

<400> 391
aatcagtcag atatgcctag atgaagaaac aaaatggcaa tctgagtaga agaaataagg 60
agaaaggagg agaggtgtga aaaaaagtcc tttttctgag aacaagcatt caaacagata 120
aaacacaggt ttcataaaga aaagttaa atgtccactac tatgagtcaa aatgggtgcat 180
ttgtcttttc ctgggttttg atttattgce ctctgtttgt accccacatt cgcacacctg 240
gcacagactg tcatatgtca cacattcagc ctctacact tccacccac aatctcttta 300

<210> 392
<211> 300
<212> DNA
<213> Homo sapiens

<400> 392

tcactgttgc agcctttttg aaggggacac agtctaggag ggggataaat gggatgccct	60
tgccccagag agaaccaggt tctaggtact gtctgggcct gggaggcgag agcagtgtcc	120
aggggacttc tgggcttaca ggacagcgtg tgtgacaaaa ttcagatcta cctgaacttg	180
cctctggaga tgataagggc caaaggagca gtcagggagg ggcggtgagc cagagtagtc	240
ccagggggag acagattcct cctcctccc cgctgcagc tctctttaat tttttgtaac	300

<210> 393

<211> 300

<212> DNA

<213> Homo sapiens

<400> 393

tcactgttgc agcctttttg aaggggacac agtctatgag ggggataaat gggatgccct	60
tgccccagag agaaccaggt tctaggtact gtctgggcct gggaggcgag agcagtgtcc	120
aggggacttc tgggcttaca ggacagcgtg tgtgacaaaa ttcagatcta cctgaacttg	180
cctctggaga tgataagggc caaaggagca gtcagggagg ggcggtgagc cagagtagtc	240
ccagggggag acagattcct cctcctccc cgctgcagc tctctttaat tttttgtaac	300

<210> 394

<211> 284

<212> DNA

<213> Homo sapiens

<400> 394

ggctgggtgga agaaaggggc attccagact agagggagca gtaattgaag agtcctgaga	60
gaaatgtagg agagagagag actaaagggt aaactggggt caaatctgat gaagggcctt	120
tattggggat ttaggcataat ctaagagtag ataaccatgc ttagtcttgt ccattagaaa	180
cagtacaact tagctctgta actgagtagt tgtggttatc aggctgttcc aaaacagtga	240
gatgcacttt gataagctat gatgcctatt ttttcacata tagg	284

<210> 395

<211> 300

<212> DNA

<213> Homo sapiens

<400> 395

aatgcggccc gagagagaag gaacacactt atgggcttgt cctgaaatga aagggaatga	60
ggaaaactgg gtagagggca aggatgctcc agcctgggtg ctctgctctc caagaggaag	120
gaatagagct ttagaagtgt ggatggccag agttcagggc agcctggctc ccaagcctac	180
ctaaaacaac catcccattc ctagaccctg ggattgagga ctgggcagag atgaatcatc	240
cattccaggg aagccatagg cagaccccg acttcgggga gcacctggcc ttgctccac	300

<210> 396

<211> 299

<212> DNA

<213> Homo sapiens

<400> 396

gcactgtcat gtctctagct gggaaatata cattgaacaa ctggttggca acggtaactg	60
ttgggccagg cgggcatgca cgcaacatac taccacaaag ccagtgaaca gctgcagggtg	120
ggtgtggagt ttgaggccag cacaaggatg caggacacca gcgtttcctt cgggtaccag	180
ctggacctgc ccaaggccaa cctcctcttc aaaggctctg tggatagcaa ctggatcgtg	240
ggtgccaccc tggagaagat gctcccaccc ctgcccctga cactggccct tggggcctt	299

<210> 397

<211> 300

<212> DNA

<213> Homo sapiens

<400> 397

ggtaaatacag	tttgggaattt	gttttcatgt	actcttaagt	tactcaattt	tagtgatcatg	60
gagttccaaa	ctgttggttt	acagtgatag	ttattaatcg	tatttgtaga	aagccaaagc	120
ctttattaat	acagatgggtg	gagattaaaa	tgaaacctgt	tactgattat	ttagaagtta	180
ctccctttta	tattttaatt	taggaatcat	ttctgtagtt	gttaattata	aattataatt	240
acttttgcag	tttatttaca	gaaaacctgg	gagctttcct	tccaagtgtt	ttctttaatt	300

<210> 398

<211> 300

<212> DNA

<213> Homo sapiens

<400> 398

ttgcagtcag	gtttctgaga	agtcttttgt	cctctgagca	gtggaaactc	cctgttgaac	60
tgattttgta	tacctgtgta	ataggatgtc	ttgtatttct	ggtttcgtta	tttgccctttt	120
cttacttaca	gctatgggaa	aattccaaaa	atcaaataat	ttacaagatc	agtgattact	180
cagtagaaga	tacattttta	aatcatgttt	aatacctaag	ccaatgaaat	gagcattata	240
tagttagagt	aagctttttt	taatggttag	tatttaacta	tagtatttga	ctaactttaa	300

<210> 399

<211> 300

<212> DNA

<213> Homo sapiens

<400> 399

ctccccataat	ccatccccac	ctgttagaat	tctattttatc	tttccagtct	tagttcaaata	60
accacttggt	tctatgaaac	tttcttaact	ttccaacaca	aattcacctc	ttcattttctc	120
tattccctta	gcagtttgct	cataacttta	ttatataatg	attgcactcc	aacttggatc	180
ttagctaatt	acgtacctgc	attccacact	agactgcaaa	cttgaggaag	atgggtgctg	240
tggtgcacct	caaaccgtat	gtgcctccca	taggacacaa	gagtttggtta	tgcaggtggt	300

<210> 400

<211> 264

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(264)

<223> n = A,T,C or G

<400> 400

atttttatgt	gtttattctt	attttataga	attcttagtt	gctggaagcc	ctcaaaactt	60
agtcataatta	ccattgggta	tttattgttc	cctttcaagt	gagggacgag	cataatcaaa	120
tctgcattgt	acatgaccag	gatttttttt	taaaaaaaca	gtactgccct	ggtggatcta	180
gtttattatt	gagtgatatg	cagaaaggta	aatagtttgc	catgttggtg	catnaaattg	240
nnnnngnncnc	ctactnatte	tatc				264

<210> 401

<211> 300

<212> DNA

<213> Homo sapiens

<400> 401

gtaaaggaaa	gcactaagcc	atcttctctg	ccctctagaa	gcttataatg	tacagtccta	60
tcacaaagca	gaataaaaac	atgaaaccta	taaatgggaa	tgccataaag	tattttttatc	120
tctacagggt	cattcatgca	gagggcattt	attgggtgac	tgcaagtactg	caaaaagggtg	180
caaaggaaat	ggaagatctg	gtccctgtag	gttgggagtt	tacaatctaa	ttagaaatac	240
aaggcatata	tacgtgaaaa	aactagaatc	cccagctgta	agcaaaaagga	tggagtaggt	300

<210> 402

<211> 300

<212> DNA

<213> Homo sapiens

<400> 402

ctcattcgaa	aacacccaca	acataacata	aagattggac	tctacagcct	gggaaaggaa	60
tcactgctgg	agcagctggc	cctggagttt	cagacctggg	tggtattgag	tcctcggcgc	120
ctggagtgtg	tacagctact	gggcctggca	gatgtgttca	cagtggagga	gaaggctggc	180
cgcatccatg	cagtagacca	tatggagatc	tgccattcca	acatgctgcg	ttggaaccag	240
accaccccta	cgattgctat	ccttcccaca	agccgaaaaa	tccacagctc	ccacctgat	300

<210> 403

<211> 300

<212> DNA

<213> Homo sapiens

<400> 403

gtttagaaac	tgattctaga	catttaagtt	cccagactaa	tgtcacagaa	gctaataaat	60
tgcagagggt	aattggaagc	ctggtcttaa	cactcccagg	ttatcttaat	gagttcatga	120
ggatggcata	tggaataatg	acttcaaagg	gtgttgtaag	tattaactaa	gttaatacag	180
gtcaaatgca	tatattagca	ctcaatgcac	ggccattgat	caataaatgc	tagtggttct	240
gatcagtgag	aatctaacct	ctgcttaaat	accttttagtc	atcagcagct	tcactccct	300

<210> 404

<211> 300

<212> DNA

<213> Homo sapiens

<400> 404

aaaagtctcc	caccttttct	cctaaaactt	ctctcctttc	tctccataaa	aagaaaagga	60
aaggaacaaa	agaaaaacat	tcagtttttc	tttttctgaa	aaaggtaagt	cctttcctga	120
agtcatacaa	tgaaacatta	tctggaaatt	agtttctaat	gttgatatatg	aagaaatact	180
caaataaag	ttcctgcagt	atctattaga	tagttgtaac	tgtaaaactca	cctccctagt	240
agataagagt	ttcagggttaa	atactggaac	atatataggc	agtcaaaaat	actactttaa	300

<210> 405

<211> 295

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(295)

<223> n = A,T,C or G

<400> 405

aaaaataaaa	agtaaatctt	aggcaagcta	aagagtgaaa	tgtatcatca	cataggagga	60
agtgggggaa	aaaagtgaaa	tgtaagaaat	gaaatgataa	gaagaactta	gtgggtattc	120

gtttgatttt ggaggcactc taggaaaatt ctgccagatt gtactacatt taaaaaaaaat	180
tttttttaac ttttgtgtgc ttcagtttgg ncatagacna atgaaaaggc acatcacana	240
ctaanangaa aatcagntcc tatatatgat aacgggttaa tatngttnta tatgg	295

<210> 406
 <211> 165
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(165)
 <223> n = A,T,C or G

<400> 406	
atgcgcttat taggtatttt atctttcaaa aatatatgta cccaactgtg tttgtttggt	60
tcctgactgt gaacactgaa gaggactaga tcaaaaatga ccaattgagt agcaattgaa	120
catttacagt gctgngtgca gtgaacttct gtagcaccca aattg	165

<210> 407
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 407	
gctgagatca cataagtaca gaatcatgac cttaatgggt tgacagtttg gaagcaccct	60
ggcaacaagc catttcagtga gaatggtaga aatggaaacc acgctgggtt gagaagtga	120
tgatgtgaa aatatggggc ctctgaatgg aggtaacctt tgaaaaattc cactgtggag	180
aagaaaggag agagagaggg ctggaatttg gaatgaaagg agatatttgg gattatttta	240
gtaagaaaac agaggtgtca tgacctcagt gtaaccctat tagctgcaaa aaattcttca	300

<210> 408
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 408	
gggagcctgt cactgcttga gacagagggc aaggaccacg gccttgaact cagcatccac	60
aggacgcca tcttgaggga ttttgagctc gagggagtgt gccagctccc agaccagtcg	120
cctcccagga acagcatgcc taaggccgag gaagcctctt cctggggaca gtttgggttg	180
agttccagga agagagtcct gttggccaag gaagaagctg accgtggagc caaaaggatc	240
tgtgacctga gagaagattc agaagttagt aagagtaaag aggggtctcc aagttggagt	300

<210> 409
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 409	
cttgtttctc tgaggaagct gaattaatgg aaagtttctc ttaaaactta gaatatattg	60
tttggaatt tctgctgtgg gcctaataatt gcagaatcaa agttggagct acatcatgta	120
gcacttgctt caataagatt gccttagtga cacaatgcaa aagggttacag acttttcttc	180
aagttaccat ttcccacaag ggcctgtgat gaaagaagaa aagagaagca agaaaagaaa	240
taagctagat acttccccag cacttggacc ttcaaaattt gtacgatata gggagacact	300

<210> 410

<211> 300
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(300)
 <223> n = A,T,C or G

<400> 410
 gctatccctc ctccctgttcc accctccaga ggtagtctct gttacccttt tattttataac 60
 ttttatgggt tttttttctg tattttatata aatcgatgca caaagagggg tctcttctct 120
 cataaaagtg attattagtc ttcagtgtgc ctttttttct cctaacaaat gtaaaactggg 180
 agcattttcc caagtacata tttataatac ttacgggtgcc tatctagtat tctgtgaata 240
 tatactgtta attnattcct tcccattgnc ngacttacct tgnattccatg tattgccatt 300

<210> 411
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 411
 gtttagtggt cctccactgc tagaaatatt ggtagttcct gattttttatt ttccctttta 60
 taaatgtctc tttgggtgaac gttatttagac ttacagtata atccagttga tacataagcg 120
 aatgaagaca gtaaccctca aacagatgtg tgtgtggcat gtacattaac tgctatcctt 180
 tcagcacttt gttttgttga aatggccatt tccattatgt tcaggaaaac tcattttggg 240
 aagaataagc aataaatttg taattaatga aatctggttc agtttttcag tttgtccagg 300

<210> 412
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 412
 gacagaatgt gcaaattaag tttgaattaa tgtaactaca gaattagata aaatcttacc 60
 tgagtactga ggattttgtg aaatgttaga acctgggtgta ttgggcatta tgaacattaa 120
 cccaggggaag cagttagggt tgaaggaagg tatgggcagg agcttgacag atgctggcaa 180
 cacatattat tagatgtttc tgtgccattt ttatagtcaa agtgtgttca tgggaaaact 240
 aaagaatttg ggacagttga caaaattaag tcgtattttta gtaaattaat taaaaagttt 300

<210> 413
 <211> 290
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(290)
 <223> n = A,T,C or G

<400> 413
 gctatccctc ctccctgttcc accctccaga ggtagtctct gttacccttt tattttataac 60
 ttttatgggt tttttttctg tattttatata aatcgatgca caaagagggg tctcttctct 120
 cataaaagtg attattagtc ttcagtgtgc ctttttttct cctaacaaat gtaaaactggg 180
 agcatttttc caagtacata tttataatac ttacggggcc tatctagtat tctgcgaaca 240
 tatactgtna nntnatncnt nnggattgac agacttacct ngngtccatg 290

<210> 414
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 414
 gtacagcttc atcactgggc cagctgtaat accagggtac ttctccgttg atgtgaataa 60
 tgtggtactc attttaaatg gaagagaaaa agcaaagatc ttttatgccca cccagtgggt 120
 actttatgca caaaatttag tgcaaattca aaaactccag catcttgctg ttgttttgct 180
 cggaaatgaa cattgtgata atgagtggat aaaccattc ctcaaaagaa atggaggctt 240
 cgtggagctg cttttcataa tatatgacag cccctggatt aatgacgtgg atgtttttca 300

<210> 415
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 415
 gttctattca tgtttcatgg atgtagtate ttcttttgct tttattaaga tactaatggc 60
 gttttaaaca gtttttgctc cttttcatag tttctgactt ctcaatgttg cattatttta 120
 aaaaaaatgt ttaaaaaggt tttggcctcc atctttccta gatgctctcc tgaaatgtct 180
 gacccttgat tattgctcat gtttaagggg agggaactaa aattatgaaa cttctaagt 240
 tggggattgg gttttaccag ctatgagcgt cagtgtatag caatctggct gtactgttgt 300

<210> 416
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 416
 ggaaagggcc gtatttgagg tcgtagggat tcacagtaca gctgcagaac aggactcctc 60
 ccctgggtccg gggctgagac tgtgtcacat ggacaggctc actgggttatg tgctccacca 120
 agttatatgc acaaacgttt tgacactaca gtcccgctc tggaataaac cttccctatg 180
 ctgcacaaag attcaaagat gggcatttac catagcacca tctaatagca aaaacaacaa 240
 aaaacacccc aaacccaaat cctgaatatt cgtgaagaga ggaatgggtg taggaagtat 300

<210> 417
 <211> 297
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(297)
 <223> n = A,T,C or G

<400> 417
 agatctagag ctttggtatc ttccgggtata tgtcaatgga ggtattattc tatagggnct 60
 ttncattnaa atgacttgnn tnentnctnc ttncncnaaa ctgncgggt nccancgntn 120
 ctncenntcc cccgctcnc tgccctgcnn ccnaccatan cctctnnac cnnncacntg 180
 nccnaccnc gncccantcg cncncange cccctccac cntccccacc cncctctct 240
 nctcccccn annnanntcn cncatcntnn antcnnccan cncctccacc tctgctc 297

<210> 418
 <211> 300
 <212> DNA

<213> Homo sapiens

<400> 418

aaggcacaga	ggtggccacc	aacctggtga	ttctctgcac	cggcatcaag	atcaacagct	60
ccgcctaccg	caaagcgttt	gagagcagac	tagccagcag	tgggtgctctg	agagtgaacg	120
agcacctcca	ggtggagggc	cacagcaacg	tctacgccat	tggtgactgt	gccgacgtga	180
ggacgcccga	gatggcctat	cttgccggcc	tccacgccaa	catcgccgtg	gccaacatcg	240
tcaactctgt	gaagcagcgg	cctctccagg	cctacaagcc	gggtgcactg	acgttcctcc	300

<210> 419

<211> 300

<212> DNA

<213> Homo sapiens

<400> 419

ttttacgatt	ctaaaaatcct	aacagatttt	aacagttgct	taaatattat	ttcttggcat	60
atatagcttt	ttaaggctgt	gggtcaaaga	tagatgtact	catttgagac	ttagtgattt	120
gttttataag	tatgttgaat	aagttgagcc	agtttgaatt	gtgtccttct	cttttaaaga	180
aaagatttcc	caaatttaaa	cctggattta	gatgtttttt	gggttaaccc	tactgaactt	240
tccaaaattt	tcaggcttct	gggcctaact	caaactgtaa	tttcatgagg	ccggccaagt	300

<210> 420

<211> 300

<212> DNA

<213> Homo sapiens

<400> 420

attacacttg	aatattttaa	aacaaaactt	ttaaacttcc	tataggttta	tgatgtttgt	60
tttcatttat	atggacataa	tccttcatag	ctcagtttat	atgccattgt	tgtattagaa	120
gggatcaaaa	tcctatggaa	caaagtagtc	ttggcaagtt	ggcagtttgt	gtcctctcag	180
ctgttttaact	tatgtaatgg	atgttttgca	cctgaaaaca	ctataaaaat	ccagtggttg	240
tttaaaaagt	ccatttgtca	ctaattccat	tcaggttctc	caaccttctt	cttgaatatc	300

<210> 421

<211> 300

<212> DNA

<213> Homo sapiens

<400> 421

agatagtctc	tgaattttaga	actgggacga	aagtgtacat	aataggctat	tataaaaattt	60
ttagaattgg	attttctaaac	ttggggtcag	tgaatctagc	aggcttaagc	agtgtttctca	120
ggtttttctg	gcacagacaa	ggaatataag	aggaggagag	aaaaggagag	acagtagtgg	180
gaggggaatag	aatgagagaa	gatagaaaat	atggaattaa	tagagaaagg	atacatgaag	240
tattacaaga	ttttcttgga	aaaattggca	tttcagtgat	ggatcaaaga	tgtctaataga	300

<210> 422

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (300)

<223> n = A,T,C or G

<400> 422

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gcccagtacc ctcccacctt tgaccggtac caaggggaaga acacctacct ggagaagatt      60
gacggcttcc gagcctatta caagcagtgg ctgacagtga tgcccgcaga ggaaacccccg      120
caccctggc agaagttccg gaccaagccc cagggggacc aggacaccgg caaggaggct      180
gatgacggat gtgcccttgg gggcaagggtg atgggagcac agcttggaac aatgtgctcg      240
gccccagtgc tttgtggaan cccnaggnc nttacnttgg ggtnacctct ggcctggggg      300

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<210> 423
<211> 300
<212> DNA
<213> Homo sapiens

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<400> 423
gctaattcag catcttcagt agcttctaaa aaataagcat catcaatgcc attatcccag      60
acagcatcag cagatgcacc tggtgacagc ctgctagggtg atggtttatg aggattctgg      120
gtttcattgc tctagtttc atctgcttca tctgtttaa actcttcttc ctttatttca      180
gtggtgaagg gatagagagt gggataggaa aatatttact caggatatgt gatttaacct      240
tatactctat gttgaagtaa ggtattaagt gacagatact aaagtgaata tgcaggagga      300

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<210> 424
<211> 300
<212> DNA
<213> Homo sapiens

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```

<400> 424
cttttccctc ccaaagttct gggattacag atgtgagcca ctgtgccttg ccttattcag      60
atcttgaaaa ttccttttgc cgtataaggc aacatattca caggttccag gattaggcca      120
tggaacattt tggggaggta attattctgc ccactacacc ttgggaggca ttcatttgc      180
cacctttact ttctttcttc tccctgtctg tactgatacc atggatagtc tatcttctct      240
tcacttcctt ctccaggaat ttcatttatt ctcatacatt tgatatttaa tgaggatgac      300

```

```

<210> 425
<211> 259
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(259)
<223> n = A,T,C or G

```

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<400> 425
ggggagccag agaagagctg tgagcaggga agggataggg tcaactctag tgacatcaca      60
ctgatggaca ggagataaga ggccaggag gaggtgggc ggagagtcca gagcggaag      120
tgagtgccca gctctcactt ctttatgtct ctctctgctt cttacggccg ctgtccctga      180
atgtttcttc cctgtctggg tctgggctgt gggcttctg cagagggctg gggggttttc      240
accccttttt tntnccnta

```

```

<210> 426
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

```

<400> 426

gacagaattc acattgggat ccagtcctttt cctcttatga atgggtctac cgccagggtga	60
cgctcaattg cacgaagctt acccttatcc atatgaggan ncnaccnaan ncacattngc	120
attnatgtnc ctntnngatn aagagcgcnt gcnnancctt cctntnttgc ccngcagacc	180
cncactnntn cccacttcca tgcccnnnnt nccatnangc tnaentttnc gctnctctg	240
acggtcnctt ttgccctctg tcccnanaca nncagcnggn tncaccanca ggaagctttt	300

<210> 427

<211> 300

<212> DNA

<213> Homo sapiens

<400> 427

tgtttttgtt tgggaggtat ttctgaactt aaaaaggaaa attgcaaacc attatagggg	60
ctagtttgcc tttggaggaa aaggaaaatt gcaaacctt ataaagacca atttgccctt	120
ggaggagaaa gccaatattat catccaaaat cctcagaatt ctcaaataca aaaagtctctg	180
aaaactgaaa gtttcttctt aagtttggtg gcaaaaagta tttatagtct tgacttatcc	240
catttgatgt gaatctgctt acatttcatt gcacaaaatg tttctgtgat tgtgaaatac	300

<210> 428

<211> 300

<212> DNA

<213> Homo sapiens

<400> 428

gcacacacac gcacacattc cgaagttgac agactaacat acacacagac atgatgacaa	60
ccaaaagctg ggactccaca cactgaatgc aggacttttag gcgggggggca gagagagaag	120
gtgctggggc acaagaggca agggatatgaa gtccctccaa ataggagtgg agtgccaact	180
gccctgcctc gctccaaaca cctgactcct gggccatggc aagagtccag tccattaagt	240
gcagcgtgca atactagcgc ttggagtctc ctgtcctcat caatgaagcg gtgtggacgg	300

<210> 429

<211> 300

<212> DNA

<213> Homo sapiens

<400> 429

agatcactca aaatttgcac gtgaagaata taagcagagc atcggttagca ctagttcagc	60
ttctgttaat cattttgatg atttatatca acctattggg agttcaggta ttgcttcac	120
tcttcagagt ctccaccag gaataaagggt ggacagtcta actctcttga aatgcggaga	180
gaacacatct ccagttctgg atgcagtgtc aaagagtaaa aaaagtccag agtttttaaa	240
gcatgcaggg aaagaaacaa tagtagaagt aggtagtgc cttcctgatt caggaaaggg	300

<210> 430

<211> 300

<212> DNA

<213> Homo sapiens

<400> 430

ccacgatgag gaggaggatg agtatgaagc agaggatgat gaagaggaag aagatgaagg	60
cagaaaggat tcagatactg agtcatcaga tttgtttact aatttgaatt taggaaggac	120
ctatgctagt ggctatgctc actatgagga acaagagaac taggggagct gctctgggtg	180
ccgtgtgtga gaggagcagg agtgagtgtg tgtgcttgat gaattgtgtg tgggtgttca	240
aaagtacctt agccacttag ccttgtgcag aagactagtt acacttaatg ggccaagcaa	300

<210> 431

<211> 300
 <212> DNA
 <213> Homo sapiens

<400> 431
 cttgaagcca cctttttttc cctccaatca gaccactgct gtaaaccaca ctgacactat 60
 tgtagtatgc ttttttctta taccataac acagtgggag attaaaaata atttttagg 120
 gtaggaagag aagtggatag agagccagga gatctagggt tgggtgctgc tggctcctgca 180
 gttaagcagg catatgtctt tgggcaagtc atttcacttg ttttagattaa ttttctcact 240
 tatgaagtga gggatttgga ctgcttagcg aggtactttt catctctaaa atttatgaat 300

<210> 432
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 432
 gatagcaaaa cctgattttt caaccatgac ctgcatgaga gaagcatcct aggaagtctt 60
 agatcatact tttgagtttt taattttaat ttatatagtg tttttttatg tcttaatat 120
 tttgtgaact ggtgtaaatt gttaatgcat ataagcttgt gtatttttgt aaatagtttt 180
 gtgatttatt tcttgcccca tatgtaaaata ttttagagtct catttcttgc aaacttattt 240
 gaagctgagt tgtgggtttg ggttttggtt gtttcttttg ttgcaggggtg ggggtgggggg 300

<210> 433
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 433
 gcactttcca tcaccaggcg cgggagtttg ctgtgaactt gcggaaccgg gtgtctgcca 60
 tccatgaagt gccccgccc agatccttca ccttctcctcaa tgatgcctgc cagggactgg 120
 agcaggctcg gaaggtgctg gcctacgcct gcgtgtacag cttctacagc caggacgcag 180
 agtacatgga tgtgggtggag cagcagacag agaacctgga gctgcacacc aatgccctgc 240
 agatcctcct ggaggaaacc ctgctgcggt gcagagacct ggcctcctcc ctgcgcctcc 300

<210> 434
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 434
 cattcatata atgatacctat gaggcagaag gaaattaatc agatgttaag tcatgtgtcc 60
 aagggcattc agcttagaaa tggaactggg atttgaacct agagtaacca taaaatcctt 120
 ccttttctac accaccatgg tacctcctag atgaagctga attttgcctc taagctacta 180
 gtccctcaca tttagtttac aagtcactcg gggcataaaa accagacacc tagaccttat 240
 gtagagattg ctacagcaca ggaacagggtg tcttagcaag catgacgtac aactaagatg 300

<210> 435
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 435
 tgtttttggt tgggaggtat ttctgaactt aaaaaggaaa attgcaaacc attatagggg 60
 ctagtttgcc tttggaggaa aaggaaaatt gcaaacctt ataaagacca atttgccttt 120
 ggaggagaaa gccaatatt catccaaaat cctcagaatt ctcaaataca aaaagttctg 180

aaaactgaaa gtttcttctt aagtttggtg gcagaagtta tttatagtct tgacttatcc 240
catttgatgt gaatctgctt acatttcatt gcacaaaatg tttctgtgat tgtgaaatac 300

<210> 436
<211> 300
<212> DNA
<213> Homo sapiens

<400> 436
gtgtccactc tgtaggcagt ttgctaacag tgttcttcca tgttatcctg gaagcaatgt 60
ggaaaataac ccttggcaac gtcctagcaa caaaagcata caagatctca taaaggaagt 120
ggaggagctg cagggacgac cgggagcttt cccagtaagc atcagttcag aaacaaatgt 180
aagtaaaaga atggaatctg taatgaaaga tataaaaaat accactcaga agaaatatag 240
agactatagc aagacccccg gctcaccaga caatgatttt ctctttatgt actctgttgc 300

<210> 437
<211> 277
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(277)
<223> n = A,T,C or G

<400> 437
aaaatatttg ttaatcaaatt gaacatgatt gctaaaaggg ccaaagaaga ttacaataca 60
aaaagtataa taaaagaaaa ttataaatcc taaaagcatt caaggaagct gtctttgaat 120
ttgaaatgca ttgtctatag aatatccact cagtgggaata taatatatac cttgtgatat 180
gtggatatag atctcactaa tttctaata tgctttanaa tttngntact nccgatggtn 240
tggnatngnt cttngnaacn nntnnntnat tgggtgtt 277

<210> 438
<211> 300
<212> DNA
<213> Homo sapiens

<400> 438
gaagaactgt atgtcaaata attcaaaaagg ggcaaaaactg aatgtagtta tgtgggaaag 60
ccttcagaaa taatttaaat ggcactgttt atcagagtat gtatgccgag gaaaactaag 120
aatttagtga gcttataaaa ccatggtagc caggcgtggt acgtagctca cacctgtaat 180
cctcccaaag tgctgggatt ataggcgaga gccaccacgc tcagttagta tgacattttt 240
aaaagaacag tataaagcat aaaatatccc atgtggggca aactcccaga ttattttcct 300

<210> 439
<211> 300
<212> DNA
<213> Homo sapiens

<400> 439
ttttttttga attattgaga atattttcttt ggaccacaaa ctataaaatg tgaaaaaaaa 60
taaaaagtat gccaaaaggg ccacgtgttt ctacaacaca cgaaagtata gaataatact 120
gcatgtctaa tatgcaaata aaatgtctct gccaaaatat cacaacttaa aatgccatta 180
tgaaacaaac cacagaaaga ccttatttgt gttacatacc aggaacatac caaaatttga 240
atgtctgata cacacagtga ttcacataag atgataaaga aacaaatgga tatttttgtga 300

<210> 440
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 440
 aaaatattta acttataata atcaaggact caaaagatga aaaatagaaa ttacaccatc 60
 ccagtatttc aggtataaca cagaatttagt aagatactgg caaaaatatt acaatgtata 120
 tatttgtata gagaaggaaa atgaagagac tgcattgtcta tacctaccaa acgaaactac 180
 ctgtgttctt tgcattcatta ttcaactggc agttacacat atttcatect aaagtcacgt 240
 aaacctgtgt ggatatgttg aatcaatagg gatatgaatt acataaaaag aattttgtgt 300

<210> 441
 <211> 256
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(256)
 <223> n = A,T,C or G

<400> 441
 tgactgcaat cctaattctc acatgttttg gggaaaaaat tttaattttg aaaaaattta 60
 ggaaagttcc taccaaatat acatgtataa agtttattaa aagtcataat gaccaggaa 120
 tagctaataa cacagaagta gatcaaaata gaacacanta gagaacttna nantaaaaca 180
 ggcgtnnnaa ttntgtncn nnctnnttgc nnnngcnntn tcaccnctng ccngcncnn 240
 cncncgtgnc nntcnc 256

<210> 442
 <211> 187
 <212> DNA
 <213> Homo sapiens

<400> 442
 gagctctctc tggaaagctc gcaactggaat ggagaacaca agcaggaaat gtgaaaagta 60
 acggttgaaa gccttactta tgatgacaca tagggaggca ggtgcatatc ttacaattct 120
 agacacttgg ataccttggg aaaccatatt gaaagttacc ttgatttctt tctttctttt 180
 tttttttt 187

<210> 443
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 443
 gttggcacct tcagttcagc acagcctgag cagtgagaag gtctgaaagg agagtatata 60
 gtttaagatcc ttgagaaagg gctgcctgag gaactgacct cttaaagatc tcaggatctt 120
 taagacaaca agttaggttc ctactggagt tacctgccag aatggcctct taattaactc 180
 aggtaatgaa gagctaactg tgttataatc atcttgcttt tgacctgaatt tggagaaagt 240
 attataatta agttccagc atcagaaatg tccttacata agattaaaat atcttgatga 300

<210> 444
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 444

tctggataga	aatgcagagg	aggctgctct	acagctggac	agtagtgagc	tctggggccgc	60
catgagactg	cctgctccat	gttgatgtg	gggcagatgt	gggagaagga	tgggtgggaag	120
aatggcttcc	aaactgtcga	ttgatcagat	aaacaaggga	ggatgccagg	ggataatgcc	180
aagaagaggt	gggtaaagaa	aggaaaggaa	cccacaaaag	ggaggagggg	agtgcagggtg	240
tgcattgtgt	ctgaaaagtg	ctcatgcaca	tacagtttgc	ttattattta	aaaacttact	300

<210> 445

<211> 300

<212> DNA

<213> Homo sapiens

<400> 445

gctagcttgt	attgttgttg	cttccttcgt	tctctgctgg	ctgccattct	ttacagaaaag	60
ggaacaaaacc	ctgcagggtc	taagaagact	cttcccgggt	gatcgtggat	tatttgagga	120
taaagtagcc	aatatttggg	gcagcttcaa	tgtctttctg	aagattaagg	atattttgcc	180
acgtcacatc	caattaataa	tgagcttttg	ttttacgttt	ttgagcctgc	ttcctgcatg	240
cataaaaatta	atacttcagc	cctcttccaa	aggattcaaa	tttacctggg	ttagctgtgc	300

<210> 446

<211> 300

<212> DNA

<213> Homo sapiens

<400> 446

gtcaccttta	aggaagaaaag	taaatttgaa	ttgtcaggaa	gcaaagttat	ggagcagcaa	60
tctaattctac	agccagaggc	caaagagaag	gaatgtggag	actctctgga	gaaagacagg	120
gaaagatgga	gaaaacatct	gaagggcccc	ttaaccagga	aatgtgttgg	agcttcacag	180
gaatgtaaga	aagaggcaga	cgagcagtta	attaaagaaa	caaagacatg	tcaggaaaat	240
tcagatgtgt	ttcagcaaga	acaaggcatc	tctgacttac	ttggaaaaaag	tgggaattact	300

<210> 447

<211> 300

<212> DNA

<213> Homo sapiens

<400> 447

ttttagtcca	gtggcttgta	attaagtcac	ttttagtctt	taattatgtt	ggttgctttt	60
agaattctct	tttagagttg	gtctacatcc	ttttaaaaca	tgggcaatcc	aaatttataa	120
cagtaaatta	agatacataa	aaaaaaacac	tggctaaatt	taaaaggaaa	cacttctaga	180
atatactgta	ttttgacaca	agaccagact	gtgctatgtg	tatgtggtgt	ttcaagtaat	240
ttaagaaaac	tgttggaatt	ttctgtattt	ccagtttcac	aagaaacaac	ctcaaggagg	300

<210> 448

<211> 285

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(285)

<223> n = A,T,C or G

<400> 448

gccaggcaac	aggactaaac	tacctccaaa	gcaagcagtc	ttttcagttt	tgactgagtg	60
atgtgaggaa	cttcttttct	ttnttttnnn	ttnttttnnn	tnnnngnttt	ttttgaanct	120

gnttnngttt	nnntntana	nggtncatgt	ttagctgnnt	ttttttttt	tttttaant	180
ggnaanttat	ttgngtnntt	tgtagnagan	ttttnttnn	nnntttatan	gtntnaggn	240
ngnanccenn	ttntntcnnt	tttttttnna	aaattngngt	ttttt		285

<210> 449

<211> 300

<212> DNA

<213> Homo sapiens

<400> 449

gaaaaaacca	atttaataga	aaagataggc	tttgcttcag	gaagctgggt	gagaagaaga	60
aggaaaaagt	cgattctact	gactgacgtt	tccccctgct	gttaagaatc	ccaaccacac	120
actttcacac	actattccag	gttctggcta	ctgaatgac	ccacagctga	ggtctattgt	180
catcgctcca	cttctatttt	tagcagcact	aaaaacattc	ccaaaaaaaa	tgttttttag	240
ctttttaact	gtagattcac	cactaagaaa	ttggcattgg	aacagtcac	agagcttatt	300

<210> 450

<211> 300

<212> DNA

<213> Homo sapiens

<400> 450

cagctgccct	ggaggtgttt	accatgtccc	ccattttcca	gaaggcgaag	ctgggacatg	60
gattaggtca	gctgtccaag	gtcatggagc	aggatccaaa	ggaggcctgg	agagtgccat	120
ctgtctggcc	ccttctttgt	gctgcctcta	gaggatactg	gggaagcctc	ctcttgtctg	180
actctgccag	gatacccttg	gccatcaagt	gctcagctaa	gccacagtgc	cactctgggt	240
caggccgacc	tgggcccgag	tgtgcaggat	gaggtacagg	aggcagctgc	cacagctgct	300

<210> 451

<211> 300

<212> DNA

<213> Homo sapiens

<400> 451

ggtaattaat	aagcagacaa	atcagaaaaca	atatagaaga	tctgaaaaat	agagttgacc	60
agctctaatt	ggtccttgta	tccaatagtt	agagatgggc	attgttttta	ggcacatgtg	120
aaataatggc	ccccccgttc	tggcccagca	gaaattatat	acttggcaac	aagtcctcatc	180
acatttttaa	taaactgtca	aaaagataac	attctcatgt	ttccgcaatt	taatttttaa	240
atgaaattaa	atttttttga	aggtaaaata	catttttgga	atctaaactg	tttaactctt	300

<210> 452

<211> 300

<212> DNA

<213> Homo sapiens

<400> 452

ccattgttag	catcgtaac	gattgtgatt	tttatgtcaa	aagaagccaa	aacttgcaat	60
actattttta	gcagacaaaa	aaaagaacta	agtataaaat	gtataaatat	ttttgacttg	120
aacatttgga	tggcactggg	tgcaagtaga	gcatccatcc	ttcggatgga	atgtttggaa	180
aaaagagact	tttaaaaagg	agacggttgt	tttaaaagag	ctgttttagg	gttaaaagtac	240
tgtaactcac	gactgttaaa	aaataaattt	tcctgtgctg	taaaggaagg	tttcacagta	300

<210> 453

<211> 286

<212> DNA

<213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(286)
 <223> n = A,T,C or G

<400> 453

atcgtatttta ttacttggtg tataggggta gaaaagagga ctgtcaatac aacaagtaat	60
aaatacgata tatatttcat atatagaaca ttagaagggt aaagctctac agaaaaaaaa	120
aaangnggg caaggccggc cncaggggct nacncctgna atcccagcnn ttgggnaggc	180
tgaggcaggg aaatnacctg nggncaggag ttcaanacca gcctggccaa canggggaaa	240
ccntgtntnt actaaaactn caaaaattac ctggncatgg gggagg	286

<210> 454
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 454

cagatttcca aattgttaac actttgctgc atctgatgtt ttccacctct attgtatgtg	60
ttttttttct ctaagccaat aggagtaagc tacaggatat gacacctctt gacctcttaa	120
tatttcagtg tatttcctag aagcgaatgc attatcctat atagtcacag tgcttgaac	180
cacaccagga agttagtatt gccaccaggc ctcacactgt gtgcagtgat gtttcacagg	240
ctcaccctct gtatatagtg atattttctag tcccttctag tcaggaacgg tcccttgctt	300

<210> 455
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 455

attgcctccc agcttgggag catccaaagt agaaccatga ctgggtcatg aaatgggtta	60
atttggtttc ttccattaca gggcaaagtt ctccctgtgg actgagaaat aaacatatta	120
taaaagttac atatgtctcat agaatagaaa tcaaagagta aaaagtattg agtgtaaaaa	180
acaagtgtct tttttccccc cagtctaact cccagaagt aacctttttt attttttatg	240
ttattttttc ttaccttcaa ggaaggagaa aagtaaccat ttttgagttg atgcgtatcc	300

<210> 456
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 456

gagggaggat cccctgggtt gtgcatatgg cgggaagggg tattccagga gtggaggatg	60
tcagcagggg gggaatggga tcagttaggg gagggaggagc agaggagtca gaaggatcta	120
agggtagggc tgaaggtggg aaaacaacct gtagggtctgt ttaggacacg gaaagggcct	180
tgactttgct gccaacgaag atgtgaaggc tccaggcaag ggtaacaatc taacttacat	240
tttatgaggg tcctgtggca gctgtggtga gaacagactt taggggtgct gaggtggatc	300

<210> 457
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 457

gcccgttctc cttttcttgg ttaaaccgat gaagaaataa aaatgccatt ttcatttgta	60
aacttgtatt tttgtattta tatttaggag tataaaatgt acttatattt aggactacaa	120

aaatgtacct	gggaagggtga	cgggacctct	atactcaggt	taagtctcga	ctgcacactg	180
acaggagtat	gtagaccatt	ccatttccct	gaagactcag	ccttgtagt	atcaggactg	240
gtcggcagat	gtgcaggaaa	aggtggcaag	aaagtgcaag	ttctagaagc	cgatgatatt	300

<210> 458

<211> 300

<212> DNA

<213> Homo sapiens

<400> 458

actggcccaa	ttaatatcca	tgcttgggag	tattagatag	gtgctccaaa	aacaatatag	60
atcctatttc	caaagttaga	ggagtggatg	cagagttgaa	aggtgaaaaa	aaaaaatggt	120
ctttatagtg	ctccagtttc	ctttcttaga	aaagtctaac	tactgattga	ttgattgatt	180
tacttattta	gggttggagg	tgagatttcc	attgacaatc	agaaagggca	agtttgattt	240
gtcttttcat	cctaaaagta	gcaacaagtg	tttgcaaaa	gctggctctt	tggttcagtgc	300

<210> 459

<211> 300

<212> DNA

<213> Homo sapiens

<400> 459

gagatgtgtc	atcctgggtga	atgtcccttt	aactgcaacc	agaaggtaaa	acttaaatgt	60
ccttgtaaaa	gaataaaaaa	ggaattgcag	tgcaacaaag	tacgtgaaaa	tcagggtttca	120
atagaatgtg	acacaacgtg	caaggaaatg	aagcggaaa	catctgagat	aaaagaagca	180
gaagccaaa	ctgctcttga	agaagaaaaa	cgaagacaac	aggctgaact	agaagctttt	240
gaaaacagac	tgaagggtcg	tcggaagaag	aacaggaaaa	gagatgaagt	ggcagttgag	300

<210> 460

<211> 300

<212> DNA

<213> Homo sapiens

<400> 460

ttttatataa	gcagtactct	ttctcagttt	ctcttgaaca	ttcaactcat	tagtgagtgg	60
ttttcccag	tcattttccat	ttttctttat	ttggctctga	tagttttctg	tttttgttt	120
tcagagataa	tcctttacta	tactaaattc	tacgtgatta	tattttccac	ctctatttgc	180
ctatatattat	ctgctgtctt	ttccttttcc	atatatgggc	ttattttttt	tttccctctt	240
cttccttttc	taccttttgt	atttaaaaaa	ttacttagga	ctgagtgcac	tggcttacgt	300

<210> 461

<211> 300

<212> DNA

<213> Homo sapiens

<400> 461

gagatgtgtc	atcctgggtga	atgtcccttt	aactgcaacc	agaaggtaaa	acttagatgt	60
ccttgtaaaa	gaataaaaaa	ggaattgcag	tgcaacaaag	tacgtgaaaa	tcagggtttca	120
atatgaatgt	gacacaacgt	gcaaggaaat	gaagcggaaa	gcatctgaga	taaaagaagc	180
agaagccaaa	gctgctcttg	aagaagaaaa	acgaagacaa	caggctgaac	tagaagcttt	240
tgaaaacaga	ctgaagggtc	gtcggaaaga	gaacaggaaa	agagatgaag	tggcagttga	300

<210> 462

<211> 300

<212> DNA

<213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(300)
 <223> n = A,T,C or G

<400> 462
 ccgtggcccg tgggggatac agaggcagag gaggtcttgg tttccgtggg ggcaaagggc 60
 gtgggtggcgg cagaggtggg accttcactg cccctcgagg atttcgagg ggattcagag 120
 gaggtcgtgg gggccgggag tttgaggatt ttgaatatag gaaaaccaca gcttttggac 180
 cctaaaagggt ctggattgat cgtactgctt tctgaaagaa agacgtcaaa gctgctgcat 240
 agtctacaaa cngtctctg aaaatangt aatttctage tcttcagggt cctgaacatt 300

<210> 463
 <211> 300
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(300)
 <223> n = A,T,C or G

<400> 463
 attggagtga catttctcac gtgtgaattt ttcacataac taaaaaaca acctaaaaaa 60
 aagttagagt taaaaaata gtaatacctt ccttttaggc cagttgagg ggcttacgcc 120
 tgcaatccca gcactttggg aggcggcac nggtggataa tttgatgtca ggaggcttac 180
 cagcctnngc agctggngaa nccctatcan acctgannan nnnngnnantn tntgctcatg 240
 nggtcttcaa ntntttttt tcttntgctt ngntaccant ngncactgct ccatgttaaa 300

<210> 464
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 464
 tgtacttaac tgttgtgtga tgtgtgcttt tgttaggcat cactgtgccc aagtatttca 60
 tgttcattgt aaagaggaaa aatacagatt tctctataat gtcaccactt atttctaatt 120
 gccacttttc atcttgtgga aatgccatgt tttgattcag tcttctgaat ttgaacatta 180
 ttcaggttat ttccaattgc tgggaatata cttactgcta aaataaatte ttagcattgg 240
 aattgctagg tcaaagatta tgcattgctt ttaagggtt ttgaaatgta ttgccagctt 300

<210> 465
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 465
 aatatcccca aataacatgt cttacatgtt tggtaagact tactgtaccc tgtcctagaa 60
 gatagaagat gccctgccct tagaagacaa agagactgta gagctatgcc ttctaaatct 120
 taagccactc ttcagataat ggatcccttc atggtcagcc caaacatctc aagaactttt 180
 aatttgtacc gtttgtcttt ttttccattt atttaatacc acaaattcac tttattatta 240
 tgaagccaat atctacatct tctcaciaag attctcttaa gaaatgcaga actggccggg 300

<210> 466
 <211> 300
 <212> DNA

<213> Homo sapiens

<400> 466

```
aggacatgaa aaggagtgaa agttaagaaa ccttagctgt agtgtttgga attaacactt      60
gggaagtcac gattgacaaa tagagaaata taaatttggt ttatatcagt tataatataca    120
tattttataac tgatataaaa caaattagat tttagacatta gaaacacata tacacataact    180
gtaatatgta ctttcttcat tctctttaac ctatatcttg gttttaagtt tcctggagcc     240
cgtggagtaa tgggacagga aggctcagag ggtctcttta ctgatagtta agatacaaaaa     300
```

<210> 467

<211> 279

<212> DNA

<213> Homo sapiens

<400> 467

```
cggttgagg cctggcgtag tcatggccgc cttccgcgac atagaggagg tgagccaggg      60
gctgctcagc ctgctgggag ccaaccgcgc ggaggcgag cagcgacggc tgctggggcg     120
ccacgagcag gtggtggagc ggctgctgga aacgcaagac ggtgccgaga agcagctgcg     180
agagatcctc accatggaga aggaagtggc ccagagcctt ctcaatgcga aggagcaggt     240
gcaccagggg ggcgtggagc tgcagcagct ggaagctggg                          279
```

<210> 468

<211> 300

<212> DNA

<213> Homo sapiens

<400> 468

```
aaacaagcga cactctagtg gtgatgggaa tagtaaatta aaaagtgagt agatggattt      60
ggacaacata aagcaacaaa atttgagatg gttgaatgag ggccggaggc catgatgaaa     120
agggcacttt ggaaaggggt ggggtggaag ggaaatatat ccgggtgggt gtgagctggt     180
gggcttccag gtcagctctt ggccatgcag ccatgcctgc aggatgatca gaagtcacgg     240
cacctcatgg gaaggttaag actggagcaa agctttttcca aggtgagcat attcagcggt     300
```

<210> 469

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(300)

<223> n = A,T,C or G

<400> 469

```
cttgatatca atggcctgcc atatggtctg tgtgccggct gcgtgaatct cagtaagagc      60
gccagcccag gcattaacgt cctccccggc acgaatagac caggcttggg ccagaatgag     120
aatctgagtg ccattgaggg gaaaggcaag gtgggggggac tgaagacacg ctgctctagc     180
tgcaacgtta agtttgagtc tgaaagtgaa ctccagaacc acattcaaac catccacgan     240
agctngtgcc atacngcaac ngcanncngt tnaaaanccc caagtatncc antgccccaa     300
```

<210> 470

<211> 292

<212> DNA

<213> Homo sapiens

<400> 470

```

gtgaaatgat ttgctgcact gcaagggagg tgagtgcagac caaggaaacta caccacaccaa      60
gatcccttcc aaggggtctaa gttgcttctc taatcagaaa cctctcaaac ctttgcgact      120
gtgcacatag gtcccatgat ggctttggca acattttacct gggaccagggt tgaacttcgt      180
accatgtatt gcatatgaga aaagaaaaaga atgtttgtca aacaaaccac tatgttttat      240
tttattttat tttagtgttg ctggtagggtg tgtagtgagt tctcagtgtg tg                292

```

<210> 471
 <211> 256
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(256)
 <223> n = A,T,C or G

```

<400> 471
gctcttttact tgggtgaacac atattgtaag aatgtgaact gatgattgga aacattactt      60
ttgacaagtt cccatacttg aaatactaca aaaacatcac ctaacaagca gaacaaccat      120
gaatgggtag acattgatta aacattttaa aagaaacaaa aaaggagat ggcaaaaaaa      180
aaaattgttt acatctgttt taattgattg ggtgattcat taatcattnn ttgcttataa      240
nnnntacntn ntccta                256

```

<210> 472
 <211> 300
 <212> DNA
 <213> Homo sapiens

```

<400> 472
cacaggccct tttgtgatgc gttccacgtg taggagatgt ggtggccgcg gctccatcat      60
catatcgccc tgtgtggtct gcaggggagc aggacaagcc aagcagaaaa agcgagtgat      120
gatccctgtg cctgcaggag tgcaggatgg ccagaccgtg aggatgcctg tgggaaaaag      180
ggaaattttc attacgttca ggggtgcagaa aagccctgtg ttccggagggt acggcgaga      240
catccactcc gacctcttta tttctatagc ccaaggctct ctgactgact ccgtcccaga      300

```

<210> 473
 <211> 300
 <212> DNA
 <213> Homo sapiens

```

<400> 473
gcagttttcc agctctaagc accggcaaaa gaggaaagct ttggcactgc taatcctcct      60
ttctacacaa cctccctccc tcctgcccga gttcctcctc gcacttgctc tgtttgtcct      120
ctcacctttc tctgtcaaaa tctgcacttg gatatgagcc taggatcagt catttggacc      180
ttaatttcag tgtgtgtgct tcctttgcct caaattgtgg caagaaaaat agtcgttcct      240
cattaaagca gtatcagcta tccttgagca caagtgggag gttgggtatt ttttggagac      300

```

<210> 474
 <211> 300
 <212> DNA
 <213> Homo sapiens

```

<400> 474
gcaccacaga ataagagttt gccgtgtaaa gacaatatcc ccattcgta tgcctcttatt      60
ttcccggtggg atatttgcac acaaatgcac gtctgttaacc aaaatattgt gtaacacaga      120
cagaaaccac ctgtttttgt ctttccttgt ttcccttaat atttcatgaa ttgtctagca      180

```


aaaatggtag gatgcttctg tagttcacaa atgttacatt tcagagactt tagaggaaaa 240
attatttttaa ataactgtca actgtttcat tgctttttaa atttttcacg tgcataaccc 300

<210> 475
<211> 300
<212> DNA
<213> Homo sapiens

<400> 475
cttaatgttt ttcaattgct caacgaactg tcagccctgt cagatatcat atatctggta 60
aaattacccc ttaggaatga gggggaaata aatacatact agatgaagga aaactaagag 120
agttttgttg tagcagacct accctaaaag aaggctaaag aaagtctctg gctgggtgca 180
gtggctcacg actgtaatcc caacactttg ggagactgag gcctgccaag ctgaggccag 240
gtggacagct tgaagcctgg agttcaagat aaccctgggc aataaaggga ggcctcattc 300

<210> 476
<211> 300
<212> DNA
<213> Homo sapiens

<400> 476
ccaagatatt cccaaatctc caaatttaaa aatagctctt tcgcacacga tttctccac 60
agaatgtagt aatgtagata tgaaacattc aggtgaactt gttagaacta atggttctat 120
aaataaaaaac tgacatcatt cataaagtta tttaaataaa ttttgtcact aaaataaatt 180
tatatgttac atcattgcta ataatgattt taactgtgag ttttcttttt gtaaaaaaga 240
attgagccaa gccccagggg ttttctaaca agctgacggg atacttggct ggggttctca 300

<210> 477
<211> 299
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(299)
<223> n = A,T,C or G

<400> 477
atccaattat ttctagaaat ccatttgatt tcagggaact gaatttgata gccaggaggc 60
attccactgg cttcttaaag gacattattg gttttcattt tgttttgttt tgatttcaat 120
tgcaactcaa acaatgaatc ttccaaagat ggttaccctc actctacaaa agtgctaagt 180
taatattctt taaaataaat acaagcattt cttggactag ataccatcaa ctttaatttt 240
atttttctca cataaatggt aacccaaaac ttaatgaaaa tttccttntg ncacacagc 299

<210> 478
<211> 281
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(281)
<223> n = A,T,C or G

<400> 478
ttttatgaaa gccctgggac tatagattta gctgattaaa tttatagaaa aagtccctgc 60

atataaaactg	gcaaagtctg	ttcttaattt	aattagccaa	atcagactta	acttccgtca	120
gaacatgtct	tggttttaat	tcagataaac	acacnaacat	acttctctgg	cacagccttc	180
anaancatcn	gcttttgntc	tggtntcgtn	cnnnnnecgtg	nncntntcnt	cnnntnecgt	240
gctcctcgnn	tngccgtntt	gngnecgnag	gtngtcgctc	g		281

<210> 479

<211> 300

<212> DNA

<213> Homo sapiens

<400> 479

acttgctcatg	gagctggcac	tgtggcgctc	tcccgtcccg	cggtgggtgc	tgtctgctgcc	60
gctgctgctg	ggcctgaacg	caggagctgt	cattgactgg	cccacagagg	agggcagggg	120
agtatgggat	tatgtgacgg	tccgcatgga	tgccacatg	ttctggatgg	ctctattatg	180
ccaccaactc	ctgcaggaac	ttctcacaac	tgcccctggt	catgtggctt	aagggcggta	240
caggcggttc	tagcactgga	tttggaact	ttgatgaaat	tgacccctt	gacagagatc	300

<210> 480

<211> 300

<212> DNA

<213> Homo sapiens

<400> 480

ttttagatct	tctgaagtat	atcagtggct	ttaatgacaa	atcaggccca	ttttctcctt	60
tcctatcatt	atgctgtatg	tatagataga	atatgtattt	tagatgtttt	attgtttagt	120
tattatttta	gtcttatcct	tctaaagttc	agcaaagctt	taggtaaatg	gcgtggattt	180
ttgaaatcct	gcattcagtc	gctagctgac	atttagaata	caggaatagt	agtttcctgg	240
aaaacagtga	cacttatgtt	aaattcttgt	ggtttttaca	aagtgagggt	tcaacacaga	300

<210> 481

<211> 300

<212> DNA

<213> Homo sapiens

<400> 481

gataaaacttc	acttatcaat	attacttata	tttggtgca	tgccctctgac	acttcatctg	60
gcctcatgtg	ttttccattt	tttctttctg	aacagactag	cccatgcccc	ctgcccacct	120
catctcacct	ccacctcttc	ccttctccat	tcccctttgg	ttcacccctt	ggcagaaggt	180
actggtggct	cagcctgcat	gccgctgtct	ctcctctcgt	gctggcatgt	catgggtggca	240
ctgttgtgat	ctcttctctt	tcctttttac	taacagacgc	agaccaaact	ggagcatgcc	300

<210> 482

<211> 300

<212> DNA

<213> Homo sapiens

<400> 482

aagaagaaaa	attacaagaa	aacatctggt	ttttgcatgt	ttgatgtggt	tgtgtgtgtg	60
tgcgtttaca	gttttaactg	atattaagtg	aagatagatt	aatgtcaccc	aggtttttaca	120
aaatcaaaga	aatagaaata	attttaaaga	cttttggtac	ttgaattact	ttgttgtttt	180
ctggctcattt	agtacattta	tggaaacctca	gaagggttga	gttgaacaga	ggcaagttac	240
agcagttttt	tgggtgggag	aattcataag	tcagcatgtg	aatcttttga	tctcatatat	300

<210> 483

<211> 287

<212> DNA

<213> Homo sapiens

<400> 483

caaaacttctt	tgtcttttga	atagtgtgcc	tttaatagaa	cacatatagc	atagttctag	60
ggattagagt	cttctgactt	cattactatt	tttacagtaa	tttatatctt	ggtttcttca	120
attagaaaaa	aaaatcgggc	ctgatttttt	atttcattta	ctagctcagc	tggtctcaca	180
cctacctgct	gaattagaag	ggacaagtat	aatccatctt	cttttcttct	ttccctcctt	240
ctgtaataat	gtttttctat	tttgaggggg	taattttttt	ttttttt		287

<210> 484

<211> 275

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(275)

<223> n = A,T,C or G

<400> 484

gcggagggga	aatggctgcc	gaaaacaagc	cggaagatga	tcattgggaac	agcaatagta	60
gtcatgtaaa	aatcttttta	ccgaaaaagc	tgcttgaatg	tctgccgaaa	tggtcaagtt	120
taccaaaga	gaggcaccgc	tggaacacta	atganagatt	atgatgcatt	tgtcttnttn	180
tttttntat	ntntntntn	tntnttttt	ttntttntat	ntantnttn	ntntntann	240
ntttntnnn	ntttntntn	ctngggactt	ctttt			275

<210> 485

<211> 286

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(286)

<223> n = A,T,C or G

<400> 485

ggtaagtgc	tagaacaata	tctaacacat	agtggttgcc	cagtaaatgt	gagctgtgtt	60
gattttgaga	ttataactac	aataataact	ttttcaaatt	gatacatatt	tagccgatat	120
aatctaattt	tttaagatgg	aattattcta	ntntntnnat	ttntttnttn	nnntntnttt	180
ttntntntn	tntntnnnt	ttntntntt	ttntttntnt	ntttntntt	ttntntnttt	240
ttntntntnt	ttttttntn	tntntntnt	ttntntntnt	ttttt		286

<210> 486

<211> 300

<212> DNA

<213> Homo sapiens

<400> 486

gctgagagac	cccttgctga	tgagctctg	atggcaccag	tgactgtcca	tcattgcattc	60
cttttattct	ctctccttta	gtatcgattt	taaagggcat	taagcactat	ggttccagag	120
tttcttgggg	aaaacttgca	gattcttatt	aattggttct	gcaatactta	aataaattat	180
tttacaatta	taagtcttca	gattataaca	tttgcattaa	tttttactga	ttttccaaga	240
tacttcttac	atttactatt	tacgtacctt	tatgtacatt	ctctgtaaaa	atagacctct	300

<210> 487

<211> 300
 <212> DNA
 <213> Homo sapiens

<400> 487
 gtggagtgtt ggctttcatt ttttcttggg caagatggaa aattctcttc ctgttactcc 60
 atcttggcca gaaatctaaa ttctcatata aaccgatttt gcttgttcag ttgttatattt 120
 tatttgcaac taaaagcaat gtcatgcatg atgacttgaa gaaatgtctg aaacttttga 180
 aaattcctta tttggcaaga aaatctactt atttatattaa atagcttttcg aacataccct 240
 tccctcactc ataattgcgg ggtaggagca caccacagtt tattagtaaa agttatttta 300

<210> 488
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 488
 agacatttac agccatttat ccagccatca taattttatt gagtaactat tttgtgtgag 60
 gcaactgtact ggatgctttg gcaacagaga taagcaaggc aaccctgtg aataaggcac 120
 tcttgggtcta cacacagtgg gagaaacata gaaattcatc tcttctgagc ggagcctgtg 180
 ggaacccaga ggatggacac ccagcgtgga ctgaggaatc atggggcata acaggaggca 240
 tctggagaga tctcttgggt aaagaatagt gagggctgga aggatattcc aggcagtggg 300

<210> 489
 <211> 264
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(264)
 <223> n = A,T,C or G

<400> 489
 caggaataat gctgacatac atacatatat atatatatat gaagagagag agagagtcac 60
 acacagacag acagacacac ggagtctcgc tgtgtctecn tgnctggagt gnatnnnctt 120
 ntagnnctn ngtnnttctt tncnggggtt ctnctctnaga ganagagaga gtcacacaca 180
 gacagacnga cacacggagt ctncctgtgn ngcccaggnt ngngtcttga ngnnnnnttt 240
 tannnnntntt gnntntntgn ttct 264

<210> 490
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 490
 gaaaagtgag tctgtccaga gatacttata gacggtagtt gattagagac gagaaacgaa 60
 ggaggtgaag ccgggggtttc tggcatgggg aaccagatgg gtgggtggtgc cattcactga 120
 aatagggagc actcaatgag cagattttct gagagaggtc aggaagcagg atagtgatgt 180
 gatggtgtgt gtggagacct gcaagtctgt cgggtgacta gccttcactt cagtggggag 240
 aggcctctac cactttggga accatcagtt tgggattgat agttaacca ttggagtaga 300

<210> 491
 <211> 300
 <212> DNA
 <213> Homo sapiens

```

<400> 491
tagtgatggg gaactgacta cctgaaaaca gctcactcaa ttgtttaaca cttccagttg      60
ttggaaagtt ctaaagcata tcaacagcta accattatta agcacatatt gtgtgctggg      120
tattgtgtta agtgcttgta tgtgttttcc cttaaatact ctctgtaatc ccttgaggcc      180
aggtagtat ctccattttt tagagcagga aacagagatg tacagtttct tggtcaggct      240
cactcagggt gtggtggaac aggaatggac cccatgcagt tggcctgcag cctgtgctcc      300

```

```

<210> 492
<211> 288
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(288)
<223> n = A,T,C or G

```

```

<400> 492
gatcaatata cagttgtcct cagctgggtc caggcccccc cccaccctt accaaaatct      60
gctcactact agtccccgaa gttagccctg caaagaccct acagaacctg cacttaggaa      120
aaggcagccc tctgaatacc agggattcga gtccctgacc atggatatgt ggggccacgt      180
ggttcaaaca agttttttt tgggacgggt tctcactgtt gccagggtc nnacnnncta      240
ggtcncnct tncnnctn ncncttcac cnntccttcc gtcccgtc      288

```

```

<210> 493
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 493
gtgcctcctg cctctccaat cctgatcccc cattcccagc caaggagagg ttttcagccc      60
ttggtcaccc tgatgacctg cagctttcca ggccttaggc tgagaagttt aagtccagtg      120
tctcataat cctcataata atctagggag gccgggcacg gtggctcaca ccttgtaatc      180
ccagcacttt gggaggctga ggcagggtga tcacttgagt tagaagtttg agaccagcct      240
ggccaacatg gtgaagcccc gtctttacta aaaatacaaa aattagctgg gcgtgggtggc      300

```

```

<210> 494
<211> 262
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(262)
<223> n = A,T,C or G

```

```

<400> 494
gattgatgta ggttttaaaa aaggcatttg tatgttgta gcttacatat ggggctagg      60
aatttcattg cttaaaaaga tgcgcctagg ctccctcttg gtggctggat ttctttttct      120
tcgcccgtgg tggccatggt tcttaatagg gccaccggaa tcatggtttc ttctttttt      180
tttttttnaa aagggnnnnn ccccttggac ccnngnnnga angccagggc cccaaatntg      240
gnntaannga accntnnnnn nc      262

```

```

<210> 495
<211> 300
<212> DNA

```

<213> Homo sapiens

<400> 495

ttaaagagcc atgacaacaa aatgcagccc ttgattctag tctggattct ggacttgaag	60
ggaaacattt ttcttatctt ttgctataag ggacattagt gggacacttg gcaaaattta	120
aattaactgt agattagata atactattgt attgttaatt ttctggcttt tattctactt	180
tgattatatt ataaaagtcc ttgttgttag gaaatagaca ctaattatct tgggttaaag	240
gaatatcatg tgaaattcac tttcaaacag ttccaaaaaa cacagtgata tatatgtata	300

<210> 496

<211> 264

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(264)

<223> n = A,T,C or G

<400> 496

ggacagtggg tcctgaaggc ctgtggccta ggagaaggag acactgaggt gtttcctacc	60
caacatgtgg tccgtgctct ccaaactatc tttgagctga acgtccaggc ctttgcagga	120
ggggccatgg gggctgtgaa tgggatgcan ccctatggng tccttgactn attnanngtn	180
nntnctnant aantcttgng tttctctggt tttnttnttt tttnttntcn ttttnnttan	240
ttnnntnttt ttnttttttn nnnt	264

<210> 497

<211> 300

<212> DNA

<213> Homo sapiens

<400> 497

atcataccca gcctgtgttg tttttaaca atatataata aaagccaaca tttattcagc	60
actgaagtat tttatacaca ttagctcact taatttttac aacaaacctg tgtgggaagt	120
actgatataa ttaatcgata ttttcagata agaaaatagc agctgaaaaa gtacaaatac	180
tttctcctcaa gacagacagg gcttaaatca ggcctttctg atgtagacca tgctcttcac	240
taccacagag ttccatgcta ctttctctcc ctctccctcc tctcctgtcc ctgctacaca	300

<210> 498

<211> 300

<212> DNA

<213> Homo sapiens

<400> 498

gcaacgaaat aatttttaaag tggatctggg ttggtagtgc ttatgggagt taggcaagga	60
aaaatgcaga ttctcttttag aatatcttca cctaggtccc aaaggattct catagataga	120
tttccaacaa atatgaggtt ataataaaaa atacaaatca catatagaag tatggcacca	180
tgaatgagaa aggaaaaaac tgtcagaaca agacctcaa gactttactg gaattaacaa	240
gcaatatgta aagtaaataag aaataagcta ttcataataa gaataatgta taagagacta	300

<210> 499

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature
 <222> (1)...(300)
 <223> n = A,T,C or G

<400> 499
 caggggtgag ccaccacacc aggccaagca ttttctttca aatacaagga atatttttct 60
 gatttaaaaa aaaaaaacga actttttttc tgataatcaa agggaaagt gcaaagatga 120
 aaataaaagt catctgtaat ctcaggtaat accaggtaat taacattttg ctggatttct 180
 taccantgaa aatgaangcn tattttttaag gtggntgcng ncntnnttnc nngttnntnn 240
 ntnggnttng ttancnnnna gnatgtnttt cntnttannc ttgttntnnn tgtagtctct 300

<210> 500
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 500
 tggctgtgga tgtaacaac atgttgcac tgtacgccag tatgctgtac gaacgccgga 60
 tactcatcat ttgcagcaaa ctcagcactc tgactgcctg catccacggg tctgcggcga 120
 tgctctaccc catgtactgg cagcacgtgt acatccccgt gctgcgcgcg catctgctgg 180
 actactgctg tgctcccatg ccctacctca taggaatcca tttaagttta atggagaaaag 240
 tcagaaacat ggccctggat gatgtcgtga tcctgaatgt ggacaccaac accctggaaa 300

<210> 501
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 501
 aaaagaaaaac gagaccaagt aataaagcag aaggaagaag aagcacagaa gaagaaatct 60
 gacttggaag tagagctatt aaaacggcag cagaagttgg agcagcttga acttgagaag 120
 cagaaattgc aagaagagca agaaaatgcc cccgagtttg tgaagggtgaa aggcaatctc 180
 aggagaacag gccaaagaagt cgcccaagcc caggagtcct aggctgaggc tgcaccaaga 240
 cctcgtgtgt caccacacag agctgtctgt ggggtgccttc tcaatctcag ggcaaaagcc 300

<210> 502
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 502
 gccagctcga gtagacgaag ttcctgatgg agctgtaaag ccaccacaaa acaaactacc 60
 cattttcttt tttggaactc atgagactgc ttttttagga ccaaaggata tatttcctta 120
 ctcagaaaat aaggaaaagt atggcaaacc aaataaaaaga aaagggttta atgaagggtt 180
 atgggagata gataacaatc caaaagtga attttcaagt caacaggcag caactaaaca 240
 atcaaatgca tcatctgatg ttgaagttga agaaaaggaa actagtgttt caaaggaaga 300

<210> 503
 <211> 293
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(293)
 <223> n = A,T,C or G

<400> 503

tcaggctggg	agggacttca	gttagcatgg	tgggggagaa	ccagtaccac	ataccagta	60
ggtaataagg	tgtccagcag	aggatgaagg	tcagcaagat	aagcagggcc	agtctcaggg	120
cccggagacg	aacacggtga	caattgtcaa	aggagcgggg	gagggcaa	tcaccagcag	180
gggctaggaa	tttagaatat	atactgtact	tcacacactc	actttctgat	ctgagtatag	240
ggtgaattga	tggagggtca	ttcctagtgn	gannganntn	gcctcctaca	atg	293

<210> 504

<211> 300

<212> DNA

<213> Homo sapiens

<400> 504

ggaaaaggag	atcaatggct	caaagggtcac	ctgtcgggga	ctactggagt	attttaaggc	60
atatattaaa	atttatcaag	gagaagatct	gcctcacccc	aagtccatgc	ttcaggccac	120
tgtctgaagcc	aacaacttag	cagctgcagc	ctctgccaag	gacatttatt	ataacaacat	180
ggaagaggtt	tgtgggggag	agaaacctta	tttgtctcca	gacattctag	aggagaagca	240
ctgtgaattc	aaacaacttg	ctctggacca	ttttaagaag	accaagaaga	tgggtgggaa	300

<210> 505

<211> 284

<212> DNA

<213> Homo sapiens

<400> 505

gaccgactga	agctgctggt	gctgtacagt	ggagaggatg	atgagctgct	acagcgggca	60
gctgccgggg	gcttgcccat	gcttacctcc	atgcggccca	cgctctgcag	ccgcattccc	120
caagtgaacca	caacttggt	ggagatcctg	caggccctgc	ttctgagctc	caaccaggag	180
ctgcagcacc	aggggtgctgt	ggtggtgctg	aacatggtgg	aggcctcgag	ggagattgcc	240
agcacctga	tggagagtga	gatgatggag	atcttgca	gcta		284

<210> 506

<211> 300

<212> DNA

<213> Homo sapiens

<400> 506

aaagtgaata	tcgagttggt	aacgcccaaga	ataccagaat	tctggaaatc	catgaagcag	60
cagcataagt	ggtttgcttc	tttctccagc	agcaacatag	tgaaatctta	acctgaatc	120
cttgatttct	tggcggtacc	aactgagaga	atttaaaaagt	gaatatcgag	ttgtagcact	180
ggatttgaga	ggttatggag	aaacagatgc	tcccattcat	cgacagaatt	ataaattgga	240
ttgtctaatt	acagatataa	aggatatttt	agattcttta	gggtatagca	aatgtgttct	300

<210> 507

<211> 298

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(298)

<223> n = A,T,C or G

<400> 507

gctgtcaag	gattgcaggg	atgaggcaag	tggaaacagcc	tcggaacctc	cgaaaatggg	60
cacgtccag	gtcccagttt	ctatggcaac	cataccggca	aattggggctc	cgcaatgggt	120

tctcctggaa aaaccgtgat tttgggttacc gcngacgtct ntancnntng gnnngnctac	180
nnntttntaa annntttata tgngaatatg tattgcatat ntntngncan cacttantnc	240
tttacattnt ctatgatgcn nngacctttg ttangttttt tgnctnntga ccccttttc	298

<210> 508
 <211> 299
 <212> DNA
 <213> Homo sapiens

<400> 508	
gcggctcttt tccctcgtga ctcggttgc cctggcgccg cgacggggcc tcacgggtccg	60
cagtcccgac gaacccctgc cgggtggtgc cattccagaa gagtcccga gacatacttc	120
tctgcacaga catagcctct cggggcctgg acagcactgg tgtggagctg gttgtcaatt	180
atgatttccc cccaacgctg caagattaca tccacagagc agggagagtg ggccgtgtgg	240
ggagcgaggt gccaggcacc gtcacagtt ttgtgaccca tcctgggatg tgagcctgg	299

<210> 509
 <211> 300
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(300)
 <223> n = A,T,C or G

<400> 509	
ggatcttctt caatcagcaa taacaggtgg ctctatagaa tggagggtag aagggatgtg	60
ggtgacttac tcagttttta gttaaagagg accctcttct gttagcatgg tgaagtgcag	120
tttctttaat aaattgtgca tgggtgggggt gggattannt ttctgtngt ttacttcagn	180
cttgcttnna cncctantna atccntnatt ntannntnnt ctctctttct ncctncctct	240
cttntttcnn tgntntnnn ntncctntn ncctgncnt tnnnaanatt ctntcctctt	300

<210> 510
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 510	
gtggagggat gcactatttc acaaggtcca agatttgttt tcagaagatg aaaatgaaaa	60
taaaatagag ttttaggaaga aaggaggatt tgaaggggga ggattccttg gaagaaagaa	120
agttccctat ctggcatcat caccaagtac ttccagagtg ctgggattac aggcattgagc	180
caccacaccc gacacttaaa gggcatttct tatttatcct tgttttagtc acaccatagt	240
ggaatgagta atcagtttta gaagctgcaa atttaccatt ctctcaaaga tgctagtgtg	300

<210> 511
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 511	
aaacaccaag aatggcacct gtttggataa ataaggctat gtttttgaaa gtaacctttc	60
cacaagtcaa taacagaagc tatggtgaaa tgtaaaaatt cacaattcta ctttgtttca	120
ctgagtgcce aatcaacgat tcatacagtt gagatgaatg tgacaaaact ctttatagat	180
aaatatatat gctaagttt atctatatat atatgtcttt gtgtgtatat acatacacag	240
atatatgcaa agacataaat aatcttcctt acaaaacatc aatagatcat tttcacaggg	300

<210> 512
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 512
 ccagcctgcg tttcaaccaa gaccaaagct gcttttgctg cgccatggag acaggtgtgc 60
 gcatctacaa cgtggagccc ttgatggaga aggggcatct ggtgctgac tgggacgatg 120
 cccgggaggg caaggactcc aaggagaagc tgggtgctgga gttcaccttc accaagccag 180
 tgctttctgt gcgcatgcgc catgacaaga tcgtgatcgt gctgaagaac cgcattctatg 240
 tgtactcctt ccccgacaat ccccgaaagc tgtttgagtt tgatacccg gacaacccca 300

<210> 513
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 513
 gaagctttca tgtcctgcat tgtggaatcg ggtgtgtcac cctctcaaca cattgatatg 60
 ttcaccaacc aggatgcttc accatgcttc ggtatctaaa gtttttattg gggtttcatt 120
 atatatgtat aattgattga atcactggcc aagtgattga actaaatctc caccctaccc 180
 cttactctgg gtgtcaggct gactcaaagc accagctatg taatcacatg gttgttctcg 240
 ctggttaactg gcctccatct tgggtcatct catcttccag cccaaattca ggtgtgatcc 300

<210> 514
 <211> 300
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)... (300)
 <223> n = A,T,C or G

<400> 514
 gagaacatct ttgagtaaga agatgcagtg tttgaacctg aggaaaagtt aaagcgtaga 60
 aaatattgtc ttgccgaagg attttgcatg cctctgtcag taacttccat tgattacgca 120
 gacatattca ggtaaaccct aatcattaag aaaaaaatta tcaatgtaga aagtaattcc 180
 cttttttctc tctgagatat acctcaatca cacacttccc cccccccact tgaaacagac 240
 ctcttcactt gtgttttttt ttcttgaggt ggagtcttcc cctgtntgcc caggctggag 300

<210> 515
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 515
 tagaaatgag atgactttat gtctaagatt tgcattaaaa tactataatc atttgaagaa 60
 agaataaagt aaatatgcca aattttgtat tataattcaa tctgtatgac agttatgtga 120
 gttttttttt gttttgtttt atgcttgtgt gaagattttt gtagttaagc tttttttaa 180
 aaaaagtcaa ctgagttact tacgtgatga aattagaaca catacttctt acaagcacat 240
 tctctcctat cccctctctc atttcagttg gcaccataat gccatttttg cctaaccata 300

<210> 516
 <211> 300
 <212> DNA

<213> Homo sapiens

<400> 516

agcaaagtgtg	ggaactgcca	aaccaaactg	cacgacatcg	acggcgtacc	tcacctcatc	60
ctcatcgctt	cccgagacat	cgcggtctggg	gaggagctcc	tgtatgacta	tggggaccgc	120
agcaaggctt	ccattgaagc	ccaccctgtg	ctgaagcatt	aaccggtggg	ccccgtgccc	180
tccccgcccc	actttccctt	cttcaaagga	caaagtgtccc	tcaaagggaa	ttgaattttt	240
tttttacaca	cttaatctta	gcggattact	tcagatgttt	ttaaaaagta	tattaagatg	300

<210> 517

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(300)

<223> n = A,T,C or G

<400> 517

caaagtgtggg	aactgccaaa	ccaaactgca	cgacatcgac	ggcgtacctc	acctcatcct	60
catcgctctc	cgagacatcg	cggtctggga	ggagctcctg	tatgactatg	gggaccgcag	120
caaggcttcc	attgaagccc	acccgtggct	gaagcattaa	ccgtgtggcc	ccgtgcccctc	180
cccgccccac	tttcccttct	tcaaaggaca	aagtgtccctc	aaagggaatt	gaattttttt	240
tttacacact	taatcttagc	ggattacttc	anatgttttt	aaaaagtata	ttaagatgcc	300

<210> 518

<211> 300

<212> DNA

<213> Homo sapiens

<400> 518

ggcatgagcc	accatgcctg	gccccaaact	tcttaaaaag	gatgatgatg	gtggtggtga	60
taatattgtt	atcatcatta	tctaacacat	agtgttact	ttctgccagt	tgttggtctc	120
agagctttac	atcattaatt	catttaagct	ttgctattga	cctcctcacg	gatcttaaag	180
actttgacct	tacaacctca	tgaaataaat	cctactgatg	cgattgtaca	gatgaggaaa	240
ctgagctaaa	agaggcacia	cagcttaaac	ccaggttaca	cagctaatac	gtgatggaac	300

<210> 519

<211> 300

<212> DNA

<213> Homo sapiens

<400> 519

cttgaatccc	ttgaccttac	tgatgagaaa	aaggctcctg	agtgggctca	ggagaagcgt	60
aagctgagcg	tggtgcatat	tcacggagtc	tacaccaacc	ctagtggcat	tgtccttcat	120
ccggctggat	atcagaacgt	gtcaggaac	actgaagtca	tgagagaaat	tcagaaactc	180
tacgaaaaca	agtcatttct	tttcttgggc	tgtggctgga	ctgtggatga	caccactttc	240
caggcccttt	tcttgagggc	tgtcaagcat	aaatctgacc	tagaacattt	catgctggtt	300

<210> 520

<211> 300

<212> DNA

<213> Homo sapiens

<400> 520

```

gttcagtggg caatacaata gtccaccaag agactgggaa tgattagaag tgaaattggg      60
ccctccttac caaggagggg cagatgatct ccattgcaca gggcgattag attctggagc      120
tgaggtgggg actgcaggag gccacctagt ctggtagggt tcaacccaag ctgtgtacat      180
tagaattccc ttgggagcgt gcaggaaata cagatgcccc tgccacattc cagaccaact      240
gaagctgaat ctccagagta gggcctgtat ggcatataa gctccacagg tgatctgcag      300

```

```

<210> 521
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 521
aattgatttg ctacatgctt aaaatgatag aggttgctca gcatttttgg agtacaaggg      60
ggtcagagag acatgtgatg aaaattacag ggcgagtaca gagatttaga agggaaacggg      120
ttttaatgcg agtatctatg acagagtctt gctctgttgc ccattgctgga gtgtagcggg      180
gctcgttgca gcctcacatt caaaggctca agcaagcctt ccttggcctt tgaagtagct      240
gggaccacag gctcatgcca ccatccctgg gtcattttta aattttttgt agagagggtc      300

```

```

<210> 522
<211> 258
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(258)
<223> n = A,T,C or G

```

```

<400> 522
cagagcttag acatccaaaa ctaatcaatg ctgaggtggc taaataccta gcctttttaca      60
tgtaaacctg tctgcaaaat tagctttttt aaaaaaaaaa aaaattgggg gggttatnca      120
tacattgaca acnctngat tnnngaaaat tnttnntttn ngcnangcga ttnccgtann      180
agaatggaac tgtagcnntn aagngctacn ngaaanaatt tnantanncn nanantnntn      240
tnnntntncn nnanantt                                     258

```

```

<210> 523
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 523
gttaactgca ctctgttcaa ggaggggttg aattggagac acagagcagt catcgttgat      60
ggcaaatatt aaatctagcc aggcacacat ttccagttcc ttcacaggg cccagtccta      120
ctcgcagaat tgttctccac agtttgactt ggccctctgg gctttcagtt ttttcttctg      180
agtctttttc cttttccatt aaaaaattag cagagttttg cagtgattgg ctgtcttggc      240
ctgcattcta cttgtgttag gccagttta tgttctttct acttcagttc aagggtgtgt      300

```

```

<210> 524
<211> 291
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(291)
<223> n = A,T,C or G

```

<400> 524

```

gccagatccc agattcaaca gcagaaacgc ttgttgaatg gcttcagagt caaatgacaa      60
atggacacct accaggggaa ggagatgtgt atcaagaaaag gctggcacgt ttagaaaatg      120
ataaagaatc ccttggttctt caggtaagtg tnttnacnta cnnntttnt nctnnntgnn      180
atatnttctt tgatttcttt ttttnnttn tctnttgctt tacntgnttt tattnttttt      240
tntcngagtt ttntnttttn tctnanntct gnnttanntn tnnnttctct t                291

```

<210> 525

<211> 300

<212> DNA

<213> Homo sapiens

<400> 525

```

taaagacaaa aagatcttca tgattgtcat tccactccag gtcctggcaa atgtagccta      60
catcatcata gagtcacccg aggagggcac gactgaatat ggcttggtga aggactctct      120
atttctggtc gacctgttgt gttgtgggtc catcctcttc ccagtgggtg ggtcaatcag      180
acattttacaa gaagcatcag caacagatgg aaaagctgct attaaccttag caaagctgaa      240
acttttcaga cattattacg tcttgattgt gtgttacata tacttcacta ggatcattgc      300

```

<210> 526

<211> 285

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (285)

<223> n = A,T,C or G

<400> 526

```

tcagaatgaa acagaacaag tccattttta ttttctttca ctgcattgca tatggctactc      60
aagttgtgtt gtgtatagct aataggatgc cattcacatt ttatacatct tttttttttt      120
ttngnaangg nnnnccnnnt tngceccng gncggngggc cngggccena tnnnggnnnn      180
nnggaatncc ccccnccgg gtnangeen ttnnttngcc nnaaccccc nnnngannngg      240
gaccannggn ccccnncnnt accecnngnn aantttttgg ttttt                285

```

<210> 527

<211> 300

<212> DNA

<213> Homo sapiens

<400> 527

```

gtccatgcta atttctagat tgatgtttta gccataaaaa tgcagtattt aataatattt      60
tattttccaa attatggaaa gcttcagaaa tagaaatatt caatataatt agtactctct      120
aatctttttt ctaggttgaa aaatctttgt tttgcttttag gttagattat gttgaaacac      180
atctgtgttt cagatgtgtt cagagctgag gtctcagctg aggctccact gaagcaggat      240
tcacttccaa aataacagag ttgttgccaa tattcagttc gtagcaaact actggaacaa      300

```

<210> 528

<211> 300

<212> DNA

<213> Homo sapiens

<400> 528

```

aataaataaa tgggacctgg ttaaatagct tctctacagc aaaagaaata attgtcaaaa      60
taaacagaca acccacagaa cgggagaaga taagacttgt aaactgtgca tgtgacaaa      120

```

```

aactagtatt cagaagctac aggggaactca aatcagcaag aaaaataaat aatcccacca 180
aaaagtgggc aaatgacatg aatagacatt tctcaaaaga agatatgcaa atggctcgaga 240
aacatatgaa aaaatgttca acatccctaa tcattagaga aatgcaaatt aaaaccacag 300

```

<210> 529

<211> 300

<212> DNA

<213> Homo sapiens

<400> 529

```

gggtgagata ccacgcatga aaccacagt gactgcaact caaagtgtgg tccttggtccc 60
agcagcattt gtcagaaaagg cagaatctca cagggccagg actaggggtgg cacaggtgag 120
gcatcccggg cacagcattt aaggaggccc tctctgtcag ggtcgtacag ggcacctcct 180
cggctcacc ctaatcccagc tctgaggtcc acccagacct ttctgagtca gagtctgcct 240
tttaacaaga ctctcagcga tatgtatgcc cagaggagtg taagaagatc tggccttaga 300

```

<210> 530

<211> 291

<212> DNA

<213> Homo sapiens

<400> 530

```

gaggaacaag aagcaccact acagggagct cccagttgag gtgcgacagg cactcggcca 60
agtccttgat ggcttcgtcc agtacttcac aaaccgcttc ccacggctgc tcctccacac 120
gcaccgagcc atgaggagct gcgcctctga gaggcctctc ctgcctact acccgccaga 180
ctcagaggcc aggaggccat gccctggggc cacagggagg tgagggtggc tggatgccac 240
acagatggtc tccgtgctgg ctcactgaat agctgagcct gtggctggcc t 291

```

<210> 531

<211> 278

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(278)

<223> n = A,T,C or G

<400> 531

```

cttaaagatg cataacaaag tcaggggatt cattctatat gatatccaat gagtatggca 60
ttggcataag gctagacaaa cagggcagga cagaggaggt gaatgaacag acacacatat 120
at ttggacac ttgaatgtgg ataaaagagg caatgtagga aggaaggga aagatagtct 180
tttcaataga aggaactgga tcanagagat attcaatgga ananaagaac gaaattttac 240
ctntntntna nnacntangn aagtnaatta ttacttac 278

```

<210> 532

<211> 258

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(258)

<223> n = A,T,C or G

<400> 532

```

caaacttaaa ataaaatccc cactatgcac attttatttc tccaacatac tcggattcta      60
ccctagcatc acacacacac acacacacac agtatttttg cctagggatt gactatgtaa      120
cttaatttgg agacaattga catataaaaa tattgagatt tccaactcat gaacataata      180
tatctctcta cttatgtcgt gtttgatttc ttttagcaat gtttgcagtg tacaggtttt      240
acnccttttg gnaggnnt                                     258

```

```

<210> 533
<211> 288
<212> DNA
<213> Homo sapiens

```

```

<400> 533
tggaaaagaa aataaaattg gcagctcact cttctgtcat ttgatcttct gtcatttgct      60
tttctgagtt ttggccctcc tgtacaatct atctggtcgg gtttactttt ctccatcttc      120
aagcaggggtg tgtcttcaag catgcatgtc tgtgttttga ttcggaattg atagttataa      180
tagaagcatg agctgctggg aaattatacc tcctgatttg tgtggtttta tttgttcacg      240
ttgcaggttt gagttagttt tgggtggatgt gttgggagat atgaacgc                288

```

```

<210> 534
<211> 223
<212> DNA
<213> Homo sapiens

```

```

<400> 534
aagacacata gtggatctgt atggcgtgtg acatggggccc atcctgaatt tgggcagggt      60
ttggcttctt gttcttttga ccgaacagct gctgtatggg aagaaatagt aggagaaatca      120
aatgataaac tgcgaggaca gagccactgg gttaaaagga caactctggt ggatagcaga      180
acatctgtta ctgatgtgaa gtttgctccc aagcacatgg gtc                      223

```

```

<210> 535
<211> 265
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(265)
<223> n = A,T,C or G

```

```

<400> 535
gccacatctg ccagagcctg gagtctgcga aggcggggac ccggttcccc ggcccacagt      60
gggggtgtgc aaaccggnna gaactgggta agatntnttt nnttcgctgt tntgnttttt      120
nnnccgagct tatctnannt ntatanttgg cnatntttnn nnctcttgn tnanatttan      180
ntatcttttt cntctcnnn tntttntnc tcnantnttt atnttttttn tcttnatnnt      240
ttctaantgc ctntntcant ttntt                                     265

```

```

<210> 536
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

```

<400> 536

cttttttcta	tttttacgct	ctgctgtcca	tgacatat	ctaacacctt	tatgattatt	60
gttctctgct	gtaaaagggc	tgatatttac	atgagtgtca	ggcaggaaga	aaaggtagct	120
gtgccagcca	cttctggcaa	gcagttctcc	caccttagcc	tccaagtag	ctgagaccat	180
aggcatgaga	tttctcaaaa	ttcctcccag	caggctttca	cttagtttca	ttgttgagaa	240
ctgtgacagg	tccatctcta	gctgtcaaagg	aggctgagaa	agngaacaca	gcagcctcct	300

<210> 537

<211> 259

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(259)

<223> n = A,T,C or G

<400> 537

catttatata	tatactatat	atttcatata	tgtatttcag	gaatttatag	accacacatt	60
catatataga	tacagatata	tatatgngng	tgtgngnata	tacncatann	tantnaagcg	120
tatatncngt	agtatacatn	atncacncat	ananacgtat	atatgnaaac	gnatatanac	180
ncgtanata	attatatgtt	atatntacng	tatntacgta	tacnnccatat	gcacntgnta	240
tncgtnntntn	tgntntntnt					259

<210> 538

<211> 300

<212> DNA

<213> Homo sapiens

<400> 538

gcctgctgag	cgtgatgact	tcctcctggg	gattctcaac	tgctgttcca	ttgtgtacta	60
cctgttggag	atgctgtctca	aggtctttgc	cctgggcctg	cgagggtacc	tgctctaccc	120
cagcaacgtg	tttgacgggc	tcctcacctg	tgtcctgctg	gttttggaga	tctcaactct	180
ggctgtgtac	cgattgccac	acccaggctg	gaggccggag	atgggtgggc	tgctgtcctg	240
gtgggacatg	acccgcacgc	tgaacatgct	catcgtgttc	cgcttctctg	gtatcatccc	300

<210> 539

<211> 300

<212> DNA

<213> Homo sapiens

<400> 539

gtggcaagtt	ggttatatgg	aaagtctctg	ttcactcaact	tgggtgaata	acagtaaata	60
cctttctatt	gttttcactt	tacattaggc	catgagtatt	tgtgcctgtg	gctgcagttt	120
gtgttagttt	cctaccccag	gtatctcctg	cagcatgcag	cttcagtcct	accagacctt	180
caaaacttaa	aaagctaaca	tattactagg	gaggattttg	caggaaaatg	gagaaagggg	240
tacacacaaa	aaagggttaa	ctactctatg	catgtttctg	caatgtgtta	tctcaagaat	300

<210> 540

<211> 300

<212> DNA

<213> Homo sapiens

<400> 540

ggttcacact	ccattttcca	gtttctgttg	acccccacct	tccagtgttg	gacaggatgg	60
agggggggaca	cttgcttagg	ggctctcctg	ggccccacac	cagtgtccac	cccaaactctg	120


```

gtcgtctcct ccccccacgc acagcacaaag ctaagggctg cccctctgcc acacgctgcg      180
ttcactgcca atgctgtact cacctccatc accctccaac tttggggccc atgtcttcct      240
tgggccaagg tctcatgggg gctagggcca agttgggggc ccaggaggcg gggagggaag      300

```

```

<210> 541
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 541
gtccattctt ataaagggaa cttctagcaa acctgcccag ccccttcctt ggagggaaac      60
attatctgta ttatcctaaa gagcaacaaa atctgctctt ggttccaaat agagacactt      120
tatctttcaa gacaatgcct atgcaaatat cttagaaaag atagtctagg agaaacaagc      180
tgccacaaga actgcaaaaa tgcaaacagc ctataaagaa ttgtctccca acatattgat      240
cttttatatt attctcttta tgcgttgcca taaaaagttg agagactgca atcctgcacc      300

```

```

<210> 542
<211> 297
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1) ... (297)
<223> n = A,T,C or G

```

```

<400> 542
gtgagcctag ggaccatttt ctctcctttt gacagggaca tcagtggagc cttctcagac      60
ccacaggggt ccttggggaa ttttgacatg gttatttaag gaaccttgcc tagaagtccc      120
aacttgagct tccccatcga cggaaggctt tggactccaa gatgattata aaggaatatc      180
ggattcctct gccaatgacc gtggaggagt accgcatcgc catctgtaca tgatacagaa      240
gaagagccgt aacgagacat atggcgaagg cagngngtg gagatcctgn ataaccg      297

```

```

<210> 543
<211> 271
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1) ... (271)
<223> n = A,T,C or G

```

```

<400> 543
aggacgaccg ctacttgcaac ttcttggaag gcacccggga ctatgagtgg ctggaagcac      60
tgcttatgaa tcagacgggt atgtcaaaaa accttttctg gctcaggcgc agacccaag      120
aagctgctcg ggaagccctg tgcattggga ggtacatgtt gctgcacca gactttctcc      180
gatacnthaa nancagnntt ttgaggntta ttancttgga nggtanncat catcnngana      240
tannttcena tttctgangt cctnactgcg g      271

```

```

<210> 544
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 544

```

atggaattta	ctttttctct	agactttctt	ttgcaatgga	acgttgcttt	gtgtgtgatt	60
tggtggaata	acaaccaata	cacaatgagc	agtctaattg	gtagtcattt	ggtgctctgt	120
gttcaagtgt	gaaatctcta	tcagtgccca	atagtaagcc	agggctctgt	tttcatatag	180
aaaatggttg	ctgacagaag	aagatgtggc	cgtactccag	ggtgggtctc	tatggaggct	240
tgtgagagtc	tctatacagc	atccatgact	gccaccggca	cttccaatac	cattagttat	300

<210> 545

<211> 300

<212> DNA

<213> Homo sapiens

<400> 545

ctccatcaag	gcattttctt	tcattggata	ttgcagtctg	cacaattgag	agagccaatg	60
gtctgatcaa	tcgcctcata	gaggaaaata	agatggatct	gttaggaatg	gtgggtgtgg	120
atgaattaca	tatgctggga	gactctcacc	gaggggatct	gctggaactt	ttgctgacca	180
agatttgcta	tattactcgg	aaatcagcat	cttgtcaggc	agatctagcc	agttctctgt	240
ctaagtctgt	gcaaactcgt	gggatgagtg	ctacccttcc	taatttgag	cttgtggctt	300

<210> 546

<211> 300

<212> DNA

<213> Homo sapiens

<400> 546

cagaaatcag	catgcatgaa	ttaatcgaaa	tacaatgcat	attaaacaat	gcaattacta	60
tagtctaaat	caccaaactg	ataaccata	caaaagtagc	tcttacaact	ttttttgaga	120
atatttcccc	taaaaaattc	cagtgatcat	cccaacctac	aaaactagat	tattttacta	180
gtatcatctt	ctctttaccc	ctcttctccc	caccaacact	ccctccaaca	cacacacact	240
tctccttaag	agaaacggct	tcctcaagaa	attatctgat	ggttcagtag	cagttggagt	300

<210> 547

<211> 300

<212> DNA

<213> Homo sapiens

<400> 547

aagaaggtgg	gggcctgcc	cggccccagg	acccccactgc	tgggcaccga	ccagtgtgcc	60
ctggggccaa	gcttctggtg	caggagccag	gaggccgcc	agctgtgcaa	cgctgtgcaa	120
cactgccaga	agcatgtatg	gaaagagatg	cacctccacg	ctggggaaca	cgctgtgaccg	180
tggtgcccag	agaccagag	cctgctagcg	aggcccatga	ggtgggtgct	ttccccatcc	240
ccatttcaca	aatgaaaaac	tgaagctctg	aggagggagg	ctgggaagga	gcagagctga	300

<210> 548

<211> 293

<212> DNA

<213> Homo sapiens

<400> 548

cctatgattc	attcattcaa	taagctttta	ctgcataaac	tttacctcca	gcactgtagt	60
taagtaccca	aaattgaata	gaaataatgg	cttttgaaaa	ttgcccacaa	caggctggga	120
ttacaggcgt	gaaccactgc	acccggccca	gtactgcata	ttaacagcca	agccatttta	180
ttctacttta	taactgatag	acttgatacc	atccatctct	ttaggttaca	gaggataatt	240
tgaagagaaa	tgttactgta	gaatatatag	ttctgtactt	ttttttttta	aga	293

<210> 549

<211> 266

<212> DNA
<213> Homo sapiens

<400> 549
 cgcgacgcac attgatggag cgtatgtcca ggcgccgggtg caccgcaagg agcaaaacag 60
 acacagttct tggctcctagg gctcacgtcc cggggcgaag aggatcctcc ataaacgatc 120
 agccatagca gctgtgattg gacaagagac tgatttcagt gactttctcc tgataagaga 180
 ccaccgacca gctgaccatg ccgaccagct gaccctgtaa tagagagaga tgatgcacct 240
 gcatgccttt gtgtcctgaa aatgac 266

<210> 550
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 550
 gcttggggag agtgatggta gaaggacctc ccaggagggc cctggagaca gtgtgaaatt 60
 cgagggaggt gaagatgctt ctgtggctgt ggagtgggtc ggggatggca gtgggaccct 120
 gcagaggagt ggctctcttg gcaagatccg ggatgtgtcc cgcagaagca gtgaactctt 180
 ggtgaggaag ctccagggga ctgagcctcg gccctccagc agcaacatga agcgagcagc 240
 ctccttgaac tatctgaacc aacctagtgc agcaccctc caggtctccc ggggcctcag 300

<210> 551
 <211> 271
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1) ... (271)
 <223> n = A,T,C or G

<400> 551
 ggaaagtgga gaggtctctg ctgcgaagag aggcaactttc agggactttc ctteagctgt 60
 ctcttcctct gggaatgagc tactcaaggc tgacccctcc tectgttgct tgaaataatg 120
 atgatataata ggttggattn ngnagtntgt nacctccngc tcaatctctc nctnctctc 180
 tacctnnnnt cttctccntn ctncctnnct tcgntnnnnc ttnnctctcc cncntnttac 240
 tctnacannt cctntnncnc accctcactc t 271

<210> 552
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 552
 ccggaggctg gtgctgagcc agtggctggg catcctagcc accatcgagg ggctgggtgg 60
 cgtgggcctg gctgacctcc tgagcaagca cgacagtcag cacaagctca gcgaagtgat 120
 cacaggggac ctgttgatca tcatggccca gatcatcggt gccatccaga tgggtgctaga 180
 ggagaagttc gtctacaaac acaatgtgca cccactgcgg gcagttggca ctgagggcct 240
 ctttggtctt gtgatcctct cctgtctgct ggtgcccatt tactacatcc ccgcccggctc 300

<210> 553
 <211> 224
 <212> DNA
 <213> Homo sapiens

<400> 553

cggatatacct	ctccctcatc	aaacttttct	ccaccaactt	tagcatctgg	ttgccaccct	60
ccaaaatggc	cccagtgatc	ccatctccta	ataagtacat	gtctgtgtgg	tctctccca	120
cactgcatag	gaatggctta	cgtaaccaat	aggtagttga	ggatgtgatg	cagtctgact	180
tttgaggcta	agttgtaaag	aaagacactg	tgtcttcctc	cttg		224

<210> 554

<211> 268

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(268)

<223> n = A,T,C or G

<400> 554

cttgagtcta	ggagttcaag	accagccttg	gcaacgtggc	taaaccccat	tgtacaaaa	60
atatatatat	acaaaaaatt	agctgggagc	ggttggcaca	tgctgtagt	cccaactact	120
caggaagccg	aggtgagaga	atcnnnnngn	nnnnnnntn	tactntnang	ttaaanaann	180
ggntttannt	nnmaaattan	ctggaagcgg	ntgncanatg	cctggngncc	caantactct	240
ggaggccnnn	gnggnaaaat	tntctggaa				268

<210> 555

<211> 300

<212> DNA

<213> Homo sapiens

<400> 555

caaatccaat	agcaagctct	gttttcta	atagtaaatg	tctttatagt	aatagtgagt	60
aatcattaat	tctaaagata	gaattattat	tacaataaac	aaactttagt	cacatattgg	120
cagtttttct	atttcaaaca	cagcaccaga	gatcagagtc	tacttgaaac	ttacatttgt	180
gttatttaac	aatttttctg	tatcttttct	attgggtgtt	tgttttgttt	atcttttgtt	240
tttgtttctt	tggttttggt	tgtttttggt	ttgttttttg	agatacgatc	tctgtcacac	300

<210> 556

<211> 300

<212> DNA

<213> Homo sapiens

<400> 556

gctcagtgc	ggcatgttga	cctgggtgtg	tcagtgagtc	tgtggatcca	gggtcagtgc	60
tggtatgttt	agctgacatt	ggcagtgagt	ccatggatcc	aggctcagtg	ctgggtatgtt	120
gacctgggtg	tgctcagtga	tctgtggatc	caggctcagt	gctgggtatgt	tgacctagca	180
ttggcactga	gtctgtggat	tcaggctcag	tgctgggtatg	ttgacctgac	attagcagtg	240
agtctgtgga	tccaggctca	gttccacaga	ggttgtataa	acatgggtctc	agggtgggttc	300

<210> 557

<211> 266

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(266)

<223> n = A,T,C or G

```

<400> 557
cgtggttgcc acgttggtct tgaactcttg acctcaggcc tcccaagggtg ctgggattac      60
aggcgtgagc caccgagtct ggccttggca gttatttttc attacttttt gttttttttg      120
gacnaggtct ggntntgtan nccaggctgg natgnagntn ntgnnatnac agatnnntgn      180
nnggntcaac nnggnaagan nngatgnggn ttcneggggn nntngnnann aantngtnan      240
tnnnnnnaan gantacatga agntag                                          266

```

```

<210> 558
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

```

```

<400> 558
aaaaatacaa aaattagcca ggcattggtg cacgtgcctg taatcccagc tactcgggag      60
gctgaggcag gagaatcgct tgaacctggg aggtggaggt tgcagtgggc tgagatcacg      120
ccattgcact ccagcctggg cgacagagtg agactctgtc tcaaaaaaaaa aaaattatga      180
aaaaagttat gggattaaag aaagtcagga taaaaatttt aaaaagcagg ccantgtcag      240
caaagcctgg aaaattgggg ccggaggctc ngcccccatc atgngcctgc cacccttcc      300

```

```

<210> 559
<211> 265
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(265)
<223> n = A,T,C or G

```

```

<400> 559
gaggcatcca aaggctcctg agacacatgg gtgctattgg ggttgngggg gangtggtg      60
aggctgnaan tgnctctnt tattaggcta tntctanctt nccattnact ganttcactc      120
aanactgcn ntnnctatn aannantaan ntaaaccttc ttaggtcant antantnctn      180
nantganttt catcantatn cctnnacnng ttnttngtt anncagatan cnttaacntt      240
attnnacnga gaaantctct tctaa                                          265

```

```

<210> 560
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 560
agaagaaagc attagcaacc ttgatgccat gacaatagaa actatccaaa ataaggcaca      60
gagaagaaag tggaaaaaaa ggcaaaaagg aaaacagagc aacagataat gtgagacaag      120
gtcagatagt ctttatgtat gtgtaattgg agtccccagg agatgtgaga ggaaaaagag      180
ttgaaacaat catagacaaa atatttccac gtttgatgaa aactatatta gttgtgtatt      240
gtacctaacc aagttattcc aaaaatttag tggcttaaac aaaacatcca ttatctccca      300

```

```

<210> 561
<211> 300
<212> DNA

```

<213> Homo sapiens

<400> 561

gccacctact	gcgtcttgg	catggagaag	aagagctgga	gacagagaaa	gatttcagca	60
gaatcctcag	gatggattta	gccgactaaa	acgatggatt	atgattggcg	atcatcacca	120
gttacctcca	gttattaaga	acatggcctt	tcaaaagtac	tcaaacatgg	agcagtctct	180
cttcactcgc	tttgttcgcg	ttggagttcc	gactgttgac	cttgatgctc	aagggagagc	240
cagagcaagc	ttgtgcaacc	tctacaactg	gcgatacaag	aatctaggaa	acttacccca	300

<210> 562

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(300)

<223> n = A,T,C or G

<400> 562

attaaaaaga	aagctttatg	tagttatgca	tgctcagtttg	ctatttataaa	tgtgtgacag	60
tgtttgnat	attaagagtg	aatttggcag	gaattcccaa	gatggacatt	gtgcttttaa	120
actagaactt	gtaagacatt	atgtgaatat	cccttgccaa	ttttttttat	aataagaaaa	180
catctgacta	aagtcгаа	atgatttctt	atggtttatt	ttgatgaaag	ttcttttaac	240
atgtcttgaa	tgtacacata	aaggaatcca	aagctttcca	ttctaactta	atctttgtga	300

<210> 563

<211> 300

<212> DNA

<213> Homo sapiens

<400> 563

gtgacattgt	gattgcaaaa	agcccaagtg	atccaaaatc	aaatatttgt	aaaagagtaa	60
ttggtttgg	aggagacaaa	atcctcacca	ctagtccttc	agatttcttt	aaaagccata	120
gttatactat	agtgataaaa	acctgtgcta	cacatccatt	tctcagcaac	ggctcctagg	180
ataatcaatc	atggcatact	gctaattgct	tgattgcagc	tgatatggag	gaaatatgtt	240
tactcttttg	ctaaagtga	gttcactcgc	gaggtgccaa	tgggtcatgt	ttgggttagaa	300

<210> 564

<211> 300

<212> DNA

<213> Homo sapiens

<400> 564

gcccagatga	ctttttcagg	ggtaacaccc	cagctgcttg	agagaacagt	gttgctgctg	60
gcagagatgc	attccagaga	tgactccgc	tctggaactc	actctcagcc	acagggagct	120
gcatgcacca	caggggcaat	gcacctttgc	aggggtacct	tctggcccca	acccttgact	180
caacggggac	aactccagaa	ggtcattcca	gatccagaga	tccccatcga	actgaaggat	240
cactgggttg	cagacacatt	gcaggtcagc	ttcttctctc	gcccagtcct	gcctcactcc	300

<210> 565

<211> 289

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature
 <222> (1)...(289)
 <223> n = A,T,C or G

<400> 565
 atcatgactc actgtagcct tgactttcttg ggctcaggcg atcctccac ctcagcctcc 60
 tgcatagtctg ggactacagg catgtgccac cacacctggc taatttttgt attttttttt 120
 ttnggnaaaa acncggtttt gccgngtngc cnaggntggc cttnanctcn ngggctaaan 180
 caatcnattc acnagnagcct ntnaaagggc tggnatnacn ggcntgaccc cntgcantng 240
 gccgacnttc aatttttnatg aataaaacnt acntngnaaa ntaagggggg 289

<210> 566
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 566
 gttttataag tggagtcttc agggaaatgat tatttgaggaa ttaggctttg aaagagcctc 60
 agctgtgttc caccctctcc aagaattcag gctgttattt ttcaaggctg ccacagaggt 120
 ggggagtggg aaatgagact agtaagttaa aatactacaa agcttgctgt tcttacagaa 180
 attcagccat ttttcttgaa taaacacttc catggattgc tgcaagcctt gattaattgc 240
 cagaatctga aatgggttgc tttgacagtt tttttcccat aggtttttgt tgcttttatg 300

<210> 567
 <211> 299
 <212> DNA
 <213> Homo sapiens

<400> 567
 tttttttttt ccaattctgt tcctttcagc ttaggaacct tagtacatgc agttttcttct 60
 acctgaaggc ttctcatcc ctttacctga caccacactc tgactcaggc ccttcaaact 120
 aactaaagcc taatcttctg ggcaaagtgt gctttttaat ttttttttca acaattgctc 180
 aaagagtgtg tgttttcata attaatccaa aattgtccta agaaaggcca tcatcacagg 240
 gggcaaagtgt taacatcatt tcctgaaaag gggttatcata ccccccaat aaattaggt 299

<210> 568
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 568
 ctaatgtgct ataaattctt ctgagcttgc tgtggctaatt ttattaattt aaaaagtatt 60
 ttttgtcttt cttaggectc cttgaatcta gtcactctag agatagaata cacaatcttg 120
 tcctgatgtt tttacttgca actcacaatc ttgtttgggtg gtttagttgc aggtttcaga 180
 gattagaccg tatatatcta aatgctggga tcatgcctaa tccacaacta aatatcaaag 240
 cacttctctt tggectcttt tcaagctgaa ggcttgctga cccagggtga taagatcact 300

<210> 569
 <211> 293
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(293)
 <223> n = A,T,C or G

<400> 569

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gccctggatg gaggacaaga gtttggtagt caatggcaac agtaccattc aaaaatagat      60
gatctgatcg acaacagtgt aaaagaaatc atttcactgt tagtttcaaa gtttggttca      120
gtggttgaag gcntgtngtc tannctgtna aggttttatt nnntnacttt nttatctnnc      180
ntnttttann tcnactntta aattaatnnt ttttnttgtt atttncatat tttttctnt      240
tatttttttt cntntttttt ttttnttnt nttgnntttt tnatantttt aat      293

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<210> 570

<211> 300

<212> DNA

<213> Homo sapiens

<400> 570

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gtttctccctt atctgatgct cactgtggcc ttgggcagcc tggcatcgag aattctcagc      60
atgttcactc ttgagttctg tgcttgcac acacagcaat ggaacagtc caaaagattc      120
ttaagggtgg ggaagggcac taagaaaaga tgaacctgca gtccctgtta taccatctgg      180
tctaattgat actactgttg tcaagcaaaa ggagctctct ccttgaggca ctggaagcca      240
atattttgac accagggttt tgagaaagaa aagtttttta ttgtaagttg actcacaaga      300

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<210> 571

<211> 276

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(276)

<223> n = A,T,C or G

<400> 571

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gggtggcaag ccaccaggt gccgaggcaa gagaccgaga gcacgagctg ttccagtgt      60
ataaaatata taaaataaca agagttatac tgatatagct catagatatg attatatata      120
aataccatta atcattagtt tgtagtaatt actctttatt caaatattat aatnntnctc      180
actctncaat catnacctan atanngctng natttgnaan natnntanct gtgnntacat      240
ggtgttaact gtttanttcc nannattcnt tttttt      276

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<210> 572

<211> 300

<212> DNA

<213> Homo sapiens

<400> 572

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gaaagattga agaagttcat cttcctgtag aaaaagtaga tgttatcata tctgagtga      60
tgggctattt tcttctgttt gagtctatgt tagattctgt cctttatgca aagaacaaat      120
acttggaaca aggaggctcg gtctaccctg acatttgcac tatcagcctt gtgcagtga      180
gtgatgtgaa taaacatgct gatagaattg ctttttggga tgatgtctat ggcttcaaga      240
tgtcctgcat gaagaaagca gttattccag aagctgttgt ggaagtttta gatccgaaga      300

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<210> 573

<211> 257

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(257)

<223> n = A,T,C or G

<400> 573

acaacagaac	ccgaagtgcc	caggatgata	tttttacaca	agctgtaaat	atggcaggat	60
tgccagcagt	gagtatccct	gttgactct	caaaccaagg	gttgccaata	ggactacagt	120
ttattggacg	tgcgttttgt	gaccagcagc	ttcttacagt	agccaaatgg	tttgaataac	180
aagtacagtt	tcctgttatt	cannttcttn	nactcntgga	tgattgttna	nnttnccctg	240
ttntnngnaa	gttnccct					257

<210> 574

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (300)

<223> n = A,T,C or G

<400> 574

attacagcca	ccttttgggt	ttcatttaat	tttggtagt	ttaatgtcta	ttaatgtgat	60
ttttttttta	acctttctcc	caataggttg	atgacaacaa	gaaactagga	gaatggtag	120
gcctttgnaa	aattnacaga	tagggtnnnc	cccntannct	ggtcncntgn	nttnntcntt	180
cctatcnntt	tnanatgngg	nancncnntn	ctntacgttn	cccnttnttn	ntnantnntn	240
cntattactn	tcncnttnc	ncnnntncnc	nttctttgna	nnnccccntc	tcctctcgt	300

<210> 575

<211> 300

<212> DNA

<213> Homo sapiens

<400> 575

atcaacgcag	gcatgtacat	cctgagccct	gcagtgtctc	ggcgcatcca	gctgcagcct	60
acgtccattg	agaaggaggt	cttccccatt	atggccaagg	aggggcagct	atatgccatg	120
gagttacagg	gcttctggat	ggacattggg	cagcccaagg	acttcctcac	tggcatgtgc	180
ctcttcctgc	agtcactgag	gcagaagcag	cctgagcggc	tgtgtctcag	ccctggcatt	240
gtgggcaacg	tgctggtgga	cccaagtgcc	cgcacgcggc	agaactgcag	cattggcccc	300

<210> 576

<211> 300

<212> DNA

<213> Homo sapiens

<400> 576

atgaccagag	aggaaggaga	agatgcagtc	cagtttgcta	acagggttaa	gtctgtctatt	60
gctatacaag	gaggcctgac	tgaacttccc	tgggatggag	gactaaagag	agcaaagggtg	120
aaggacatct	ttaaggaaga	gcagcagaaa	aattacagca	agatgattgt	gggcaatgga	180
tctctcagct	aagaggacgg	atgacagcct	ttagatctag	aactagccct	tagaaatgga	240
atggcttttt	tgttttgttt	tgttttattg	ttttgttttt	attattgtta	atcttttcta	300

<210> 577

<211> 296

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature
 <222> (1)...(296)
 <223> n = A,T,C or G

<400> 577

aagattgggg	taataactgaa	tgtatagttt	ttagggggtg	aaatttagct	gtataaatca	60
taggctgttg	acatttgtga	ttacttcatt	gctaagtttt	acatatagga	gtcttcatac	120
tttgtttcag	ggacagaatg	atgctgctga	aattggaaca	agaaatttta	gatttcattg	180
gtagtaatga	gtnagtcctg	acnttnnnna	gatnntanat	tgggntccca	ttctccttgn	240
cttctancnt	ggantntnnt	ttnttttngn	ttnnncctnt	nnntttnttt	ttgctc	296

<210> 578
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 578

ggcttctgca	accaggaccg	gaggacactc	ccgggggggc	agcctcccc	ccgggtgttt	60
ctggcctgt	ttgtggaaca	gcctactccg	tttctgcccc	gcttccctgca	gcggctgcta	120
ctcctggact	atccccccga	cagggtcacc	cttttccctgc	acaacaacga	ggctctccat	180
gaacccaca	tcgctgactc	ctggccgcag	ctccaggacc	acttctcagc	tgtgaagctc	240
gtggggcccg	aggaggctct	gagcccaggc	gaggccaggg	acatggccat	ggacctgtgt	300

<210> 579
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 579

tcctattgta	aaatcacttg	ctaaggctca	tgagaggcta	gaagattcca	aactagaagc	60
tgtcagtgc	aataacttgg	aattagtcaa	tgaaattctt	gaagacatca	ctcctctaat	120
aaatgtggat	gaaaatgtgg	cagaattggg	tggatactc	aaagaacctc	acttccagtc	180
actgttggag	gcccattgata	ttgtggcatc	aaagtgttat	gattcacctc	catcaagccc	240
agaaatgaat	aattcttcta	tcaataatca	gttattacca	gtagatgcca	ttcgtattct	300

<210> 580
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 580

ccctatctta	tgagaaaagt	aactttgaaa	ggactaatac	atcctgttct	tagcttctgc	60
ttccttcagg	ctttctctat	gaagccagcc	tattctgctc	agcgcttttg	aacactgatt	120
ctatttcattg	gaccgaagca	ttgcccaatt	gtagaattgc	aataaagcca	actgagatct	180
ttaaattggc	tataattcat	cctttggcaa	tacagtataa	aaaaaaaaatt	ctcacaattc	240
tgtaaaagg	tatgagatat	acaataaaa	acacccccac	cctctgcaat	ctaccactca	300

<210> 581
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 581

caaggctcatc	gccaagggtgt	gattggaaaa	attcaaaaaa	ttgcaacctc	aggcataaat	60
gggttaagga	catcccaagc	ccaagtggta	cgtgcctcac	tcagaactga	cgggccgagt	120
tctatctagg	tgtgtcttcc	agaacctgtt	tacggctaac	tggataactg	agagacttgt	180

catttctaaa gacatttaag ttgctccagg gatttctgaa aaaagacaca ggcttcttcc	240
tagagccagc cctatataac atgcccacaa gggcaacagt tatcacagtt catacacacc	300

<210> 582
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 582	
ccaagacctc cacggccttg tgtcaagaaa tctccacaaa gtgacagtga atgatggagg	60
gggagttctc agagtcatta cagctgggga ggggtgcattg cctcatgaat tcttgggaagg	120
tgtggaggga gttgcagggtg gttttatata tactattcag gaagggtgat ctctcttaca	180
caaccttcat tctcgccctc aaagacttat tgatcatata aggaatctcc atgaggaaga	240
tgccttactg aaggaggaaa gcagcatcta tgatgatatt gtttttgtgg atgttgtcga	300

<210> 583
 <211> 291
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(291)
 <223> n = A,T,C or G

<400> 583	
ctgcctcagc ctectgagta cgtctgggatt acaggcgtgc accaccatgc ctggctaatt	60
tttgtatttt tagtagagat ggggtttcac aatgttgccc aggttggtct cgaaccgctg	120
accttaacgg atccgcctgc cttggcctcc ccaagggtgct ggaattacag gcatgagcca	180
ccgtgcccggt ctgacttttt tttatcttat ttctttgtga cacgggggatg tgctcaanct	240
tccaggctgg antgcaatgg cnnncatgg ntcgntgacn tcaatctgct g	291

<210> 584
 <211> 284
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(284)
 <223> n = A,T,C or G

<400> 584	
agagtgagaa cccctctgct acaaaaaata gaaaaaccag ctggggcgctg gtcgcgctca	60
tgtatagacc agctgctgga gagactgagc tgggaggatg gcttgagccc aggaggccaa	120
tnntgtnggg agctgnggtc gtacnactgt actctaactt ggncnactcg ancacgannt	180
cntntencat naactntntc ngtgtntttt gngnttttcc ntnnnttggt ntctnttnc	240
attgttcttn ctntcnctna ttgtganang ntcnttctct cctt	284

<210> 585
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 585	
gcagtcaggc agtgactgcc ttcggctttt tttctgctga ctaagatctc ctatagagag	60

ctacaacaat	gccccaaaaga	aaggctgcag	gtcaaggtga	tatgaggcag	gagccaaaaga	120
gaagatctgc	caggttgct	gctatgcttg	tgccagttac	accagaagtg	aagcctaaaa	180
gaacatcaag	ttcaaggaaa	atgaagacaa	aaagtgatat	gatggaagaa	aacatagata	240
caagtgccca	agcagttgct	gaaaccaagc	aagaagcagt	tgttgaagaa	gactacaatg	300

<210> 586
 <211> 298
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(298)
 <223> n = A,T,C or G

ataagaaatt	gtcttgcccta	agattaaata	tatatggata	tttttcctaa	gaaaagtttt	60
agaaaagact	gatgagtgtg	tttctatgta	attggaatat	atttaaggtc	atnccgnntg	120
ggnnnnan	atnttctnctca	cactcagggg	cntnggggan	naacnccngt	tggnggaaga	180
nnnccnngnn	cnacntgtgc	agcanctatc	ccttttcctc	acggcngntc	tccnngnacc	240
tcctcgcnnt	nttnnngcnt	cccctggngn	nnctctgnen	ncctcccnc	attcctga	298

<210> 587
 <211> 300
 <212> DNA
 <213> Homo sapiens

ggaagacaca	ataattttta	attgcctaca	gcaggggttg	gcaaatagtg	gtgcaagggc	60
cacatctggc	tagcagccta	tttttgagaa	tgaagtttta	tgagaacca	cacatctgtt	120
tgtagattgc	tatggctgcc	tttgagttac	agcagtgagg	ctgagtagct	gtgacagaga	180
ctatatgacc	tacaaaaact	aaaaatattg	gtcctttaca	gaaaaagtgt	tctgaccctt	240
ggcctactat	ttcaaatcct	gggtaggtcc	tccacgtcag	ttcttcatgg	aactgtattg	300

<210> 588
 <211> 290
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(290)
 <223> n = A,T,C or G

gtccagcatt	atggagtga	cgtcagctcc	aggaagcaga	gacttctggc	cctttgttca	60
ccatttcccc	agaacctagg	gtggtgactc	acctataagt	gtcaaaaaa	catgtggcga	120
atggaggacc	agagctaggc	tctgaatgag	gcctcctgga	tctcacgcag	gggatggaga	180
gtaaggacca	gccccctctac	ctcatgcttt	cttctctctg	ntcgtanga	gcccacatnc	240
ttntgtcctg	agcangncan	annctgnagn	nctgccttga	caggatggct		290

<210> 589
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 589

ggaaatcatg aaggaaggca agcagtttca cgggatagtg acataccatc gccaccttta	60
tgatatccac gtgactgttc agccaaagta taaacacgtt tatectaaga actctgtagt	120
aagaaaaagc catttgtagg gtgcttaagc ttgtttgtaa aatggcctac ttgaagtcct	180
catgaataat gaggggtgac ttccatttgc ttgaaactta aggaagtttg tgcctataaa	240
agttactgca attcagtatt tctttatttt tttcgagaca gagtctcaat ctgtcgccca	300

<210> 590

<211> 296

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(296)

<223> n = A,T,C or G

<400> 590

ggcgggcgaa tgtagtctca gcctcccag tagctgcgac tacaggcgag tgcctccatg	60
cccagctaat tttttgnatt tttagnnann nnggcgnnca atcctgttag aaactgttgg	120
agctgcgccg aggcactgac cctgccaccc tctactgcat taacttcanc cagactcct	180
ccttcctctg cgcttccagt gataagggta ctgtccatat ctttgccttc aaggataccc	240
gtcttaaccg ccgntccgng ctngctcncg tgggcaangt ggggctatga ttggca	296

<210> 591

<211> 279

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(279)

<223> n = A,T,C or G

<400> 591

ggcaagccct ggatgaaaac atggacctct tggaaggtat aactggcttt gaagactctg	60
tccgaaagtt tatctgccat gttgggggca tcanttanna tgccntngnc cgcttgactgn	120
tgntntnaga ggctctgngt tectnnaggg nnantcctt atanantctt gtntctnngn	180
tcttatcagc annntgctnt ataattctnt gtacctnccc ntttggttnna gnactnnnnc	240
canataagna ttgatgccta nctctcntat nnttattgc	279

<210> 592

<211> 300

<212> DNA

<213> Homo sapiens

<400> 592

gtgaaagcgg ggcctcacga tccttctgac cttttgggtt ttaagcagga ggtgtcagaa	60
aagttaccac agggggccaga acttccacct tgtgggtcaat tgtttcaagt gtgtgaccat	120
acttgctcaag aaagtcaagt cttaccagat aactgaaaaa cagctccaag ttctactggc	180
ctatgctgag gaggacattt atgatacttc aagacaagcc actgcctttg gtcttctgaa	240
ggcaatttta tcaagaaagc tggttggtccc agaaatcgat gaggtcatgc ggaaagtatc	300

<210> 593

<211> 300

<212> DNA

<213> Homo sapiens

<400> 593

gtcggctctt	cctatcattg	tgaagcagaa	ttcaccaagc	gttggattgt	tcaccacta	60
atagggaaacg	agagccgaac	agctgaagag	agttcactga	ctccccagcc	ccagggtgggc	120
cttgtgcaca	tcatgaccag	ttttgaagat	gctgacacag	aagagacagt	aacttgtctc	180
cagatgacgg	tttaccatcc	tggccagttg	cagtgtggaa	tatttcagtc	aataagtttt	240
aacagagaga	aactcccttc	cagcgaagtg	gtgaaatttg	gccgaaattc	caacatctgt	300

<210> 594

<211> 300

<212> DNA

<213> Homo sapiens

<400> 594

ggaagaaaag	tggcagcatg	aacagtaaga	gaatcattac	aggctgggtg	cagtggctcg	60
cgcctgtaat	cccagcactt	tggtaggctg	aggccaggag	tttgagacca	gcctgggcaa	120
catggtgaaa	ccctgtcctt	acaaaaaagt	taaaaattag	ccgggatgtg	ataccttgtg	180
cctgtggtcc	cagctacgtg	ggaagctgcg	gtggaaggat	tgcttgagcc	tgggagatcg	240
aagcttcagt	gaaccgtaat	tgcaccactc	ccttccaggc	tggaggacag	agcaagaccc	300

<210> 595

<211> 297

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (297)

<223> n = A,T,C or G

<400> 595

ggatgggcag	cccaccatgt	gttcagatgg	gatattatgg	tatttttcat	gtggnattgc	60
ctgnnatggt	ttatatttnn	cnnnnttttt	tacanggggn	tngtattggt	tcttannttn	120
cntgtttttt	cgnattntna	tnttnncttn	ntttttnttn	tntntntttt	tttngnntna	180
tntttntttt	gattcttcta	tttnnnnttc	nttnnnnttn	tccttnttag	tnnatntnt	240
ttttntttnc	attgtnnngt	ttnttnatct	ttttttttta	ttnatatttt	ttaatta	297

<210> 596

<211> 265

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (265)

<223> n = A,T,C or G

<400> 596

ccctgcagac	ttcttcttgg	acatcattaa	tggagattcc	actgctgtgg	cattaaacag	60
agaagaagac	tttaaatacca	cagatatcat	agagccttcc	atgcaggata	agccactcat	120
agaaaaatta	gctggagatt	tatganntct	ccttcttntn	cnnagagact	ttagctnnnt	180
tacatntnct	tttnngtnnt	tnannnaann	tntttnnncg	nttttttatt	ntgggntttt	240
atctttgttt	tattttnttn	tnnat				265

<210> 597

<211> 300
 <212> DNA
 <213> Homo sapiens

<400> 597
 tccgcaccca ccgtggtgaa cgggcccggc caccaccacc atccactctg ctgcggccac 60
 ataaccaccc tggcccagta cccatggccc ctgcaccccg agttcgggcc cagccttctg 120
 gaccagcca gcccacgtg tgtggcttct gtgggaagga gttcccccg agctcagatc 180
 tggtaaaca caggcgta caacacgggg agaagccata caagtgtgca gagtgtggca 240
 agggtttttg tgacagttct gcccgcatca agcaccagcg tgggcacctg gtcttgacgc 300

<210> 598
 <211> 279
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)... (279)
 <223> n = A,T,C or G

<400> 598
 gagaccttga caagaaagat gcatcaatca acatagaaaa tatgcagttt atacacaatg 60
 gcacctatat ctgtgatgtc aaaaaccctc ctgacatcgt tgtccancct ggtcacatta 120
 agctctatgt cgttnnaana nanantttgt ctgtntctann ngtttttttn tttntnggtn 180
 ntccangtct ttaagnanct ctntntttgn ctcatntttt ntgctnctnn atcntgtggn 240
 agnctgtctg tntnctann tntnnnttt gatcttttt 279

<210> 599
 <211> 300
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)... (300)
 <223> n = A,T,C or G

<400> 599
 gaggatatag cगतगगत ggatatggtc gtgatcgtga ctattcagat catccaagtg 60
 gaggctccta nngngattca tangctannt nnggcncat gactgagcgc ntnaccnttn 120
 cnngnncct cgnctccta ngcggtggn taaccatata cgtactacc ccgcanttcc 180
 cggacatgat cctctccgcc tctcgagcct ctagaactat agtgagtcgt attacgtaga 240
 tccagacatg ataagatata ttgatgagtt tggacaaacc acaactagaa tgcagtgaaa 300

<210> 600
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 600
 gctgattgag aatagtcgag atgacaccac ttgggtaaaa ggacagctcc aggaactgag 60
 cactcgtcgg gacactgtct gtaaaactctc tgtttccaaa caaagccggc ttgagcaggc 120
 cttaaaacaa gcggaagtgt ttcgagacac agtccacatg ctgttggagt ggctttctga 180
 agcagagcaa acgcttcgct ttcggggagc acttctctgat gacacagagg ccctgcagtc 240
 tctcattgac acccataagg aattcatgaa gaaagtagaa gaaaagcgag tggacgttaa 300

<210> 601
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 601
 gtattaaata agatgtcttt aaacagaaac acacatatat gtattgattg attaatgagg 60
 ctctcaggaa cctgactctg tgtttccctt aggagcagtg tttcagtatt cactaatcga 120
 gtgttcatgg tgactttata gaaccactgc aaatagtgag aattaactat acatatatgt 180
 ttctgtgtgt acgcacatgt gtgtgtatgc atacttgtct ctaaacatat gggattatac 240
 tctgctgctg ttttgccttt tatgtcatta tgtatactat ataagtatat ttttacatta 300

<210> 602
 <211> 299
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1) ... (299)
 <223> n = A,T,C or G

<400> 602
 gaagtgaatg aaaagaaaga cagagttaca gatgccctta atgctacaag agctgctgtt 60
 gaagaaggca ttgttttggg agggggttgt gcccttcttc gatgccttcc agtcttggac 120
 tcattgactt cagctaannn anntnantan atcnntagnn tntcaccttt tnttttnnan 180
 anaggcctnt ttttntnnnn ncnttgnntt ttctttgggt cnnctntntt nnttttnnnn 240
 ntncctcttt tgnntnaann tctttnnntt annttctttt natttgtttt ttgggtctt 299

<210> 603
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 603
 cagagaaggg acagaacctg acttcaaaaat ttaatatagt aatcaagaaa gtatgggtatg 60
 ggtgagagaa tagacaaata gatggaataa aatagagatt ccagaaagac ccacacaact 120
 agagtccact gatctttcaa aaaggagcaa aggcaattca atggagaaag gatggtcttt 180
 tcaacatggt gctgtaacaa ttggacatcc acatgccaaa aaaagatgaa tctagacacc 240
 ttacatcttt cacaaaaatt aactcagatc atagacctaa atgtgatgta caaaagtata 300

<210> 604
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 604
 gagccatgcg agcagctcgt tcccttggag aaagaactgt aacagaactg atattacagc 60
 accagaaccc tcagcagttg tctgccaatc tatgggccgc tgtcagggct cgaggatgcc 120
 agtttttagg gccagctatg caagaagagg ccttgaagct ggtgttactg gcattagaag 180
 atggttctgc cctctcaagg aaagtctctg tactttttgt tgtgcagaga ctagaaccaa 240
 gatttcctca ggcattcaaaa acaagtattg gtcattgtgt gcaactactg tatcgagctt 300

<210> 605
 <211> 296
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(296)

<223> n = A,T,C or G

<400> 605

gtaaactgta tatctgtaat atgaatccca gcttttgagt ctgacaaaat cagagttagg	60
atcttgtaaa ggaaaaaaaa accggaccaa aatggagatg agtacttgct gagaatgaat	120
gaggggaagga gttggcattt gttgaaagta tagtcttttt ctcttttttt ttnaatngca	180
ncttttactt taaatttagg aggtcagtn cccaggtttg tncatgggta tattgggnga	240
tgctganctt ggnatncnaa ngatcctgtn acccaggtan ngagtntang ccccca	296

<210> 606

<211> 297

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(297)

<223> n = A,T,C or G

<400> 606

gtcaacatga agggcaatga catcagcagt ggcacagtcc tctccgatta tgtgggctcg	60
gcgncttcen tggncgcagg ctttcacgn tatgtntgtc tgngtattt tcncttntng	120
nttntnnntn tntgntgtt tttngtnctt tttttctgct ntntntcct tntttntnc	180
tntcaggnnn nttntntcnt ttcttantnn ttttttctt ttttgnnt tntttttta	240
tntatgtngn tttntttgtt tntannntn tntgnattcn attgnntatn gctattt	297

<210> 607

<211> 300

<212> DNA

<213> Homo sapiens

<400> 607

ggatctgttt ccagtaatag tattcttttt tgttccacaa atcatagatg tcaccattga	60
accttctgaa gagcctttat ttctgtctga tgaattgtat ggaatagtgt gtgctaacct	120
taagaggagc tttgatgtcc gagaggatc tgctagaatc gtggatggaa gcagattcac	180
tgagttcaaa gccttttatg gagacacatt agttacagga tttgctcgaa tatttgggta	240
cccagtaggt atcgttgga acaacggagt tctcttttct gaatctgcaa aaaagggtac	300

<210> 608

<211> 293

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(293)

<223> n = A,T,C or G

<400> 608

cagagaaggg acagaacctg acttcaaaat ttaatatagt aatcaagaaa gtatgggtatg	60
ggtgagagaa tagacaaata gatggaataa aatagagatt ccagaaagac ccacacaact	120

```

agagtccact gatctttcaa aaaggagcaa aggcaattca atggagaaaag gatggtcttt 180
tcaacatggt gctgtaacaa ttggacatcc acatgccnna taaagatgaa tctagacacc 240
ttacatcttt cacnaaattt aactcanatc atatnaccta ntgtgatgta cct 293

```

```

<210> 609
<211> 267
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(267)
<223> n = A,T,C or G

```

```

<400> 609
gacggaagta aattatgatg tccaggggga gatggaggat aggacgtatt tataataggt 60
atatagaaca caagggatat aaaatgaaaag atttttacta atatataatt tatggttgca 120
cacngtacac accagaagat gntaaattnn tttgtggcat ttaannctnt ctntnnnnntt 180
antgcnntnn nntcttaatt ttttttntnt ttgtctntnn ntntctnaag annntnatntn 240
ntnnngatnn ntntntann tttcctt 267

```

```

<210> 610
<211> 294
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(294)
<223> n = A,T,C or G

```

```

<400> 610
gtcgcccttg gggggagctg agcaaagtga tcattgttga caattccctt gcctcataca 60
tcttccatcc tgagaatgca gtaagtggcc ccaaagaaaag aaaatgtcgt gctccatctg 120
agccctctgt cttgccaggc aggtaccact tttgagcacc tacacaagaa ggtctctggg 180
ccttttccta atgaaatccc agctctgccca tttagcagtt gcgtgtcatt gaccaagtta 240
tttaacctca ctgagcctcg gntgcctnat ctgcanatgg gaattatagg aatg 294

```

```

<210> 611
<211> 297
<212> DNA
<213> Homo sapiens

```

```

<400> 611
ttaaatctta cttgatcatt tagagttttg cttttataaa caagcctttt gatacagagg 60
cagaagccag tgaaaaatac ttttatagag atgaggtctt tttattttat ttttttatag 120
agacaaggtc ttgctatgtt gcttaggttc caacccttgg cctcaagcca tctcctgct 180
taggcctccc agagtgctag gattataggt gtgagctacc gtgctcaact gaaaaatagt 240
ttagaagaca gtcctactcg acaaatatnt tctttttctt ttcttttttt tttttttg 297

```

```

<210> 612
<211> 262
<212> DNA
<213> Homo sapiens

```

```

<220>

```

<221> misc_feature
 <222> (1) ... (262)
 <223> n = A,T,C or G

<400> 612
 ctccgggctc caggctggct tgcccgcgct ctttcttccc tcgtgacagt ggtgtgtggt 60
 gccggaaagg gtgatggact tagcattcac agacgacacc acacaccact gtcaaataaa 120
 cagctattta aggggggaaaa aaaaaannaaa aaaaanaaaaa aaaaaaaaaa aaaaaacana 180
 aaaaanaaaaa tnaaaaaanna antnnnaaan canaananna atnntanaca aanaaaaaan 240
 gaggtantnn nnnagcnnac nt 262

<210> 613
 <211> 280
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1) ... (280)
 <223> n = A,T,C or G

<400> 613
 gattctttcc caggccacaa gacattttct gctcggaaacc ttgtttacta atttccactg 60
 cttttaaggc cctgcactga aaatgcaagc tcaggcgccg gtggtcgatg ggaccctttg 120
 tggagtctgn gatgntatag gtttattcna nancnttata ngctanagta aannagttaa 180
 caanaacnnt ngnattcatt ttatgttnca ggttcagggg gaggtgtggg aggtttntn 240
 nnnnnntnat ngnnnnnnt nnnnnnanat nntttttttt 280

<210> 614
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 614
 ctcattctta ccaacaacaa caacaacaaa attagctggg tgtggcagtg tgtacctgta 60
 gtccatagcta cttggcaagc tgaagtggca gcattgcttg agcccaggag ttaaaggctg 120
 ctgtgaatta tcattgtgcc actatacttc agccagagtg acaaaggaag accctgtctt 180
 gaaataaaaa tttttaata aaattaatta actttagtta ctataacatt ctttataacc 240
 tttaaaaaat tttaaatttt tgactctttt tgtaataaac agcttaaaac acaaacacat 300

<210> 615
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 615
 ggcaggagga tggcttgaac attggaggtc gaggtgcag tgaactgaga tggcaccact 60
 gtattctggc ctgggtgaca aagtgaagct ctgtctcaga aaaaaaatac tgtggaaagc 120
 ctctatgtcc caatatgaaa caatctctct gatatactct tgtggaaaaa agcaacgttc 180
 cacagagtat atgtagtaag ttttatctat gtcagaaaaga aggagaaaata aaaatatgtg 240
 tatgtatttg catatttttg taaaaggtag acacaggaag gataaaccaa aaatgcaaat 300

<210> 616
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 616

```

gccgacctgt gggacctgat ctttctcttg ggtagggcca tcctgggcac tgcagggggc      60
tgagcagtgt cgctggcctc cgcctacttt atgccaggag cacccttagt catgacaatc      120
acaaatggcc ccagacatca accagtgtgc cctggagggc agagtctccc ctggtgagac      180
ctccattcgg tcaactccctc cccccccagg gccacgctca aagcctgtcc cagaggagat      240
cctggcctcc gcctgatctc ctctgaccct ttacaaaagt ttgctgaccc ctgacttaag      300

```

<210> 617

<211> 300

<212> DNA

<213> Homo sapiens

<400> 617

```

cagctcctcc accagcataa tgggacccag catccctgcc aaaactcggg aggtgctcgt      60
cagccacctg gcatcttaca acacatgggc tttaacaagg atgtatggag tttcttgagg      120
gcttggcagg tggctgtgaa ggccatcagt gtctgaagcc tgtacttgcc cctccccagg      180
tcctgtgagt ggagaggcac agagtgttct gggctagctg agtgtggagg ctgggtggct      240
ctgatgctag ccaatcactc tacgctctag gctcacacct ttccaccttc gacttcgcca      300

```

<210> 618

<211> 299

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (299)

<223> n = A,T,C or G

<400> 618

```

ttttttgect tttaacctgg ccttgatca tgagtttttag ctcagataac caggtatttt      60
gaagacgtga ttgtccttgg cctgccccca tcccttcctt ttaaagggtt aaatnttnnn      120
cntgccntnc ctntgncng aatnccnna tacnctgcan gccntcctgg gcaacancac      180
actgagcaga ccannangaa acctnggggg ctttgacctt gtggctctct atggcttngg      240
gggtgnntnt gengtccang acaaccggnt annctgnant gncgnttcct acccatgcc      299

```

<210> 619

<211> 300

<212> DNA

<213> Homo sapiens

<400> 619

```

ttgaaattac aaatcacgca actgcaacac tagaaggcaa tcagattttt aacaaccggt      60
ttggaggctt attttttagca tctggtgtta atgtgacaat gaaagataac aaaataatga      120
acaatcaaga tgccatagaa aaggctgtta gtagaggcca atgtttatat aaaatatcaa      180
gttataaccag ctatcccatg catgatttct acagatgtca tacttgtaac accacagatc      240
gaaatgccat atgtgtgaac tgcattaaga agtgccatca gggacatgat gtagagttaa      300

```

<210> 620

<211> 300

<212> DNA

<213> Homo sapiens

<400> 620

```

taagggtatt gtggcatacc atcaagccaa cccattatac acattatgga aagttcacaa      60
gaagaagaga gaaaggaatg ggcagaaagt ttacttaaag agtgacccaa aacttcccaa      120

```

atctgggaaa	gaaaatggac	atccagattc	aagaagacta	aaggacccca	aataagatca	180
acataaacac	acaccaagac	acattataat	aaaattgtca	aactctcaaa	gacagtaaga	240
gaattttgaa	aacaagaaaa	aagtgacttg	tcgtgtacta	gggaacacac	atcagactat	300

<210> 621
 <211> 268
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1) ... (268)
 <223> n = A,T,C or G

<400> 621						
gagcagggat	cttataaagg	gccagaaata	agatgtgtgg	ttcacataga	tagtgagcgt	60
aacatctgta	ttaaacaatag	gatagaagnt	ttttttngnn	nttgattnct	ccnctngntn	120
cngttntntt	ctnnggttnn	gtctntnttn	tnactttntt	tnttatnttn	ngtcttnttt	180
ntgcttcnat	gcttntnttt	ntnntttntt	attnnccett	cnnntntttt	nttttttttt	240
ttntngtttn	tttncccttc	tnnntntnt				268

<210> 622
 <211> 300
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1) ... (300)
 <223> n = A,T,C or G

<400> 622						
gataacagca	gcctccgctc	tctcattgag	aagcccccta	ttctcagtag	ctcttttcaat	60
cctatcacag	ggaccatgct	ggccggcttc	cgctccaca	ctggcccgtt	gccggagcag	120
tgtcatgtga	tgcataattca	nnctgccnaa	nggangaata	ngcgcangcg	cntanagtag	180
gcggcccnng	atcntgggcc	angagaaana	cgnncnagat	gngagnnga	cnagnngnng	240
aatngggggn	anganagtgg	tgnggnanng	gagnngagn	nnagcggggn	gagggggagg	300

<210> 623
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 623						
ctgccttcca	acaaaatcgt	caagcgggca	gaggagttag	tggggcagga	gttgcccttat	60
tcgctgacca	gtgacaactg	cgagcacttc	gtgaaccatc	tgcgctatgg	cgtctcccgc	120
agtgaccagg	tgcattctca	gcctgcatcc	ccttcccagg	agccaggcca	ctccctcagc	180
tgccagaggc	tgggtccctg	ctggggccag	ggtgggatgg	aaatagacat	gagcaagaca	240
aaatagcaga	tatgaaactg	ttgtccttga	gggtgtcaca	tttggggtag	ggacaagggt	300

<210> 624
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 624

```

gcacaatgtc tacccagaga tgtttggtcc tgacctgacg cccaccttct atggtgccat      60
caagaacctc ggcaccaacc aatgcctgga tgtgggtgag aacaaccgcg gggggaagcc      120
cctcatcatg tactcctgcc acggccttgg cggcaaccag tactttgagt acacaactca      180
gagggacctt cgccacaaca tcgcaaagca gctgtgtcta catgtcagca agggtgctct      240
gggccttggg agctgtcact tcactggcaa gaatagccag gtccccaagg acgaggaatg      300

```

<210> 625

<211> 300

<212> DNA

<213> Homo sapiens

<400> 625

```

gtcagctcgg gcaagccctc cgagaagaac ctctacgccg acatcgacgc cgcggtggcg      60
gcgctgcgca cccggtatgg cgtgagtccc gagaacatta tcctctatgg tcagagcatt      120
gggactgtcc ccacggtaga cttggcctcg aggtatgaat gcgcagcggg aattctccat      180
tccccctctga tgtctggttt gcgtgtggct tttccggata ccaggaaaac atactgcttt      240
gatgctttcc ccagcattga caagatatct aaagtcacct ctctgtgttt ggtcattcat      300

```

<210> 626

<211> 300

<212> DNA

<213> Homo sapiens

<400> 626

```

taacttaaaa ctgccttttc aatttccagc atgtatagaa aatatgattc gactagaata      60
aagactgaag aagaagcctt ttcaagtaaa aggtgcttgg aatgggttcta tgaatatgca      120
ggtaggtatt catttgtatc atctaagact gatccttatg acaataagga gtaccttaga      180
gatgattaaa gaatttaaaa atgtgtacat ttcaaatttg ggtgtgtgtg tgtgtgtgtc      240
cctgttagag ggagagaggg acatagctgt aacaaatcac cagatagcct attttatagc      300

```

<210> 627

<211> 278

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(278)

<223> n = A,T,C or G

<400> 627

```

gccatgggca ctgtgagcct gggccagctc cccctgcccc ccatccctca tgtgtttctca      60
gctggcactg gctctgccat cctgcctcat ttccatcatg cattcagata attgattttt      120
aaagtgtatt tttngtattc nggaanacgt atnatnanta ntntaatttn ttataagatt      180
nnntttnggn nttttaannt ntgtantatn nntatnttnc nttntntatt tntannantt      240
ttntantntn tnannagttn ntnactnttn taatttta      278

```

<210> 628

<211> 300

<212> DNA

<213> Homo sapiens

<400> 628

```

agaaagcaga gtgtgcagtt gtgttgactc tttgtctccc ggtgataaac ccatgtgata      60
ttttacccaaa gtagataatc aaaagaattg accaaaaaat attaaagcaa agcaaagaaa      120
caaaaggtga tactgccaga agtgaaattt gaatggaaca taaatggaat tacagaggaa      180

```

atagcaaaga	gtgggaatgt	tggcactgct	gttgttccag	tgactctaga	tttgctgcca	240
gacaaactta	gtgaaagcat	tgtgacataa	aggatgaaca	agtgacactg	gcataagatt	300

<210> 629

<211> 300

<212> DNA

<213> Homo sapiens

<400> 629

ggagaatcac	ttgagcccgg	gagttctggg	ctgtttagt	gcactatgcc	aatcagggtg	60
ctgcactaag	ttcagcgtca	gtgtgggtgac	ttccctgggg	actcccaggg	gactgccaga	120
ttgcctaagg	agagatgaac	tggccaggtc	agaaatggag	caggctcgaaa	ctccccatcct	180
gatcagtagt	gggattgtgc	ctatgaatag	acactgtatt	ccagcctggg	caatatagca	240
agatcctgtc	tctaaacaaa	ataaaacaaa	acataaaaaa	aacccttgt	ctggaacaac	300

<210> 630

<211> 268

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(268)

<223> n = A,T,C or G

<400> 630

gggtggcctg	tccagctcag	catccttggg	agtggccacg	tacaccttcc	tccagcagct	60
ctgtccagag	tcgggcacaa	tagctgccc	cgccatttg	cgtcattgcc	ccatggctctg	120
cctcagctnt	gcgnntctga	ccntagtggg	gntnctnatt	gnnnnncana	ncccanctat	180
cgtagangatn	cttnnnnttct	gtttnnngca	tngntatntg	ntcttannat	tgcatanntn	240
tcnnngtnt	tnntttntnt	atnnnaaa				268

<210> 631

<211> 300

<212> DNA

<213> Homo sapiens

<400> 631

gttcagtgt	ccccgggatt	actctggcta	tcaacgggat	ggatatcagc	agaatttcaa	60
gcgaggctct	gggcagagt	gaccacgggg	agccccacga	ggtaatat	tggtggtggtg	120
atcctagctc	ctaagtggag	cttctgttct	ggccttggaa	gagctgttaa	tagtctgcat	180
gttaggaata	catttatcct	ttccagactt	gttgctaggg	attaaatgaa	atgctctgtt	240
tctaaaactt	aatccttggac	ccaaatttta	atttttgaat	gattttaattt	tccctgtttac	300

<210> 632

<211> 300

<212> DNA

<213> Homo sapiens

<400> 632

aaaaatatgg	gctgggatta	caggcgtgag	ccaccacacc	cagcctttct	tttagtgctt	60
taaatatatt	ggccctctgc	cttctggcct	ccaagtctt	gatgaaaaat	ctgcttgtca	120
ttttattgag	gatcccttgt	atgtgacaag	tttcttccct	cttgctactt	tcaggattct	180
aactttgcat	ttcaaaaagt	agactataat	gtgtctcagt	gtgggtctct	ttgagttcat	240
tttacttggg	gttacttggg	ctgcttggat	gtttatatgc	atgtctttca	tcaaatattgg	300

<210> 633
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 633
 ggggtttcaa gaacgtgcct cttgggaagg acgtccgcta cttgcacttc ctggaaggca 60
 cccgggacta tgagtggctg gaagcactgc ttatgaatca gacggtgatg tcaaaaaacc 120
 ttttctgggt caggcacaga ccccaggaag cttttcggga agccctgcac atggacaggt 180
 acctgttgct gcacccagac tttctccgat acatgaagaa caggtttctg aggtctaaga 240
 ccttggtatg tgccactgg aggatatacc gccccaccac tggggccctc ctgctgctca 300

<210> 634
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 634
 ggcaaaggaa ctaaagaagc ctaatgaaga catgtgctta gcagaccaa agcctttgcc 60
 agagttgcct cgtattccag gacttggtct ctctggaagt acattttcag actgtctcat 120
 ggtggtgcag ttcttacgaa actttggtta agttttgggc ttgatgtga atattgatgt 180
 tccaaacctg agtgttcttc aagagggatt gctaaatata ggggacagca tgggtgaagt 240
 acaagacttg cttgtgaggg tcctctcagc tgctgtatgt gatccaggtc taataacagg 300

<210> 635
 <211> 275
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1) ... (275)
 <223> n = A,T,C or G

<400> 635
 gaaatacttt gagcagctct gtgggggtgta aaccttctgg tggggactga aaatggcctg 60
 atgcttttgg accgaagtgt gcaaggcaaa gtctataatc tgatcaaccg gaggcgattt 120
 cagcagatgg atgtgctaga gggactgaat gtccttgatga caatttcagg aaagaagaat 180
 agagctacga gtttactatc ttctatggcc agaacgcaga atactacata atgaccaga 240
 gngtnaaaat ttaaatcang gncntatca ctggt 275

<210> 636
 <211> 300
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1) ... (300)
 <223> n = A,T,C or G

<400> 636
 actaactggg ggattttatt tataagggt ctagaaaaaa cgagttattc acaccagcat 60
 catcttaact aacattctga actagttagt gctgcttttt attntgntnn ntcttntnn 120
 ntttntntnn ncttntntt cnantntttn tntnttttt atctcttnt ntntctnttt 180
 ttntntttct ttntntngtn tntnmantat tctattaggt ntntcatttg ngttntctnt 240

nttttntgt ntegetnttc ttggnennn ttttnnnnt tatttnnttt nttttggttt 300

<210> 637
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 637
 gaacatccca ccccccgca gccagtgtc cttgtcaagc tcccccgct actccaggtg 60
 ggagccaccc cgggtgaggg gtgtgccact tgtccccagg gcactcctct gggcatcccg 120
 ggtgggggat tttggggcgg tggggggcag tctctggtac ctgtgtgctg cagggatgct 180
 ctgcacctgc aaccaggtgt cgtccacggg cgggggcatg gtaacagtgg tccgtgtgat 240
 gtcaccgatg atgctgagcg cctccttcag cgcgtggtgc atgtgcagca tctcgtcgtg 300

<210> 638
 <211> 266
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)... (266)
 <223> n = A,T,C or G

<400> 638
 gaagccagcc aacttcttgg atcttggagg tgggtgtaaag gaagctcaag tatatcaagc 60
 attcaaattg ctcacagctg atcctaaggt tgaagccatc cttgtcacta tatctggagg 120
 tatagccatn anaaggctgc aattaccaag gnatcancaa ccnattgcat tcatntnatn 180
 cntcaggttc acgtgnaggc ntgggaggtt taantagcaa ngntnnnnnn acangggcta 240
 canncaatnn nccccgtant atcnna 266

<210> 639
 <211> 275
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)... (275)
 <223> n = A,T,C or G

<400> 639
 ggaggccaca gtaaactctc tcacagccca ctggtcctca agaggtgcc a cgtctccaca 60
 catcagcaca actacgcagc gcctccctcc actcggaagg actatcctgc tgccaagagg 120
 gtcaagttgg acagtgnacg agtccngna cagatcacnn tctancnaa tctncactca 180
 nctncagnt tctttggncn cngtangnn aatngnaant nnnnnntttt tttcnntana 240
 tnnttctttn actnttnnnc ntngttnatt ttctt 275

<210> 640
 <211> 269
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)... (269)

<223> n = A,T,C or G

<400> 640

actacttttta	tttataagga	aagtttctct	atthttgttta	taaacattaa	accagtgtctg	60
tgtgaaggca	cttaattggg	gggaggtgtg	ggaggtttnc	angcccntac	cacnnntnac	120
nnnccatanc	ccccattgt	tgnaaaaaan	ggggantnga	nttactanca	ganntancca	180
cctannntnan	nnccccncc	atgcccnccat	nnnangnggc	tgccnttnac	gaanannnnc	240
ctggnnanag	nncctanncc	ttnnnatth				269

<210> 641

<211> 295

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (295)

<223> n = A,T,C or G

<400> 641

aagagtga	agcattggta	acagtgcctt	agaactgtgt	cagttagtct	gattttggaaa	60
tcctttatgt	aaagctgaga	ctggtcctgg	ttttgttccc	tttggctaca	gacctnttgt	120
ccnagntcta	ntgtnnccat	tnccggccttt	ncagntnnnt	gnattccctcc	ntatcnnntt	180
tctntntnnc	ctttatnttc	ctgttcttta	ttttnncttt	anntccctcng	tggtatctcta	240
ttnnnttcta	ngnggcctct	tcctnnnttg	antntntntc	tntnancct	tgtcc	295

<210> 642

<211> 262

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (262)

<223> n = A,T,C or G

<400> 642

ctgtaaatga	caaaagaaaa	agaaaaattg	agccttggga	cgtgccatt	tttactgtaa	60
attatgattc	cgtaactgac	ttgtagtaag	cagagttnt	gnnnnnnang	nattgtagac	120
tttntatn	tnatthnnn	nngantntct	ttntnaatn	cttntaatn	tnnacattna	180
tgnttcnttt	annttanngn	ttantttnta	ttgntntct	nnnnntttt	nttntcttna	240
ttttntttt	actntttatt	tt				262

<210> 643

<211> 272

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (272)

<223> n = A,T,C or G

<400> 643

ggagaattcc	cttattgtc	acttctctga	gcttcaaggt	tctgaagcat	ccagataaga	60
agttccgggt	tgccaggcc	ctgagggcc	ccgttgttgg	cccagattcc	tccaagaccc	120

tcttatgtct	gtccctcaca	ggccttcaca	agcttgagga	aggggangtg	gccnnngccg	180
ntcggtgann	gtgatnnann	aacnngnnnc	tcnennntcc	tcttcnecetn	tgetnncann	240
nnannancnc	nctnnttcac	tgaccgactt	ct			272

<210> 644
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 644						
gatgtgtctg	gtgtgggttt	ccaagcaag	gttccttgga	agaagatgtc	tgagaggag	60
ctggagaatc	agtactgtcc	cagccgatgg	gttggtccgac	tgggagcaga	ggaagccttg	120
aggacctact	cacagatagg	aattgaagcc	accacaaggg	cccgggccac	caggaagagc	180
ctgctgcatg	tccccatagg	agacggcgaa	ggggagaaaag	tggacattta	cttccccgac	240
gagtcgtctg	aagccttgcc	tttcttcctg	ttctttcacg	gaggatactg	gcagagcgga	300

<210> 645
 <211> 288
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(288)
 <223> n = A,T,C or G

<400> 645						
ttttgacctt	gaaacgatga	tcctcaaggt	ccttctcagc	actggtattc	cctgaaggca	60
ttggatgaat	aacggagatt	ctaacagtct	ctgttaagac	aggatgngta	aagnggncnn	120
tgancttnaa	tntnttctct	ntannanttt	ntnngnannn	ggantncttn	atttttttgg	180
atngatnnnt	ganattttta	nttnttttgt	ttnnanntng	nttnnanann	nngcnntttt	240
tagggngnga	nnnttnactt	ttatttanct	ntntnnggna	ttttgttt		288

<210> 646
 <211> 259
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(259)
 <223> n = A,T,C or G

<400> 646						
gccatcttcc	agtaattcgc	caaaatgacg	aacacaaagg	gaaagaggag	aggcaccgca	60
tatatgttct	ctaggccttt	tagaaaacat	ggagtgtgtc	ctttgggtcct	tatatngcna	120
atctatntnt	tnggcannnn	tnntnctgtt	tttttcnatn	nttttttttt	tttttttttt	180
ttgntcnenn	agnttttaata	aaattttttt	ttnanccnnn	tattanncta	ncntttatnt	240
nnaanatann	ncnattngt					259

<210> 647
 <211> 300
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature
 <222> (1)...(300)
 <223> n = A,T,C or G

<400> 647

tgccccccaga	actgtcctgg	ctccttccgt	attaaacgca	tttgcatttt	gagaagtgtc	60
cttcccactt	cagccctccg	gagagactac	cctagtcttt	ctgggggtggn	gatgaactaa	120
gntgaagcnt	ggcctatntg	ctgagagggg	angancngaa	gtganannng	nntnaatgcc	180
cactngaattg	aagctgagag	agagatctan	naaaagctan	aactcatgnt	gtctatcttt	240
gaacttggga	naaacccaca	aggtgctgct	gcttatatct	gngaagcact	ancttattct	300

<210> 648
 <211> 270
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature
 <222> (1)...(270)
 <223> n = A,T,C or G

<400> 648

agcatatgct	tgtctcaa	at	tgaaaaacgt	attcaagaaa	tcattgagca	gtagatgtc	60
acaactagt	aatatgaaa	ggaaaaactg	aatgaacggc	ttgcaaaact	ttcagatgga		120
gtggctgtgc	tgaaggttgg	tgggacaagt	nctgctttga	ttcnnttcnn	ncannngnnn		180
cntcntttan	ntncnttatn	nnnccctngn	annnnncnntn	cctnngcntn	nnnctcnntn		240
nnctntnttt	cnnnnntcnt	nttttantnc					270

<210> 649
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 649

ctgttgatcc	aagtgtagcc	tgaagcgaaa	gaggagcctt	ccagaccat	gccatatata	60
aacacacgtg	ggtgtgcatt	ctccccccac	accttctgtg	caaagctggg	agctcactcc	120
actgcgtctt	gcttttttct	acttggcaga	tcttggagat	tgttccacat	cagtacataa	180
agtacataaa	gattgtcacc	ccacaaatac	acaccaagtc	ctattttcat	cagcgataaa	240
aaagaaaagt	tcttgctttc	cggaagcctg	catgcggctc	tgagtacca	gtgacaccag	300

<210> 650
 <211> 281
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature
 <222> (1)...(281)
 <223> n = A,T,C or G

<400> 650

tccagtcgca	acggccagac	ctgacctgcc	agctccgggc	gtgggggtgaa	atctcttgat	60
tcctagtctc	tcgatatggc	acctccgtca	gtctttgccc	aggttccgca	ggcccagnct	120
gnnetggcnt	tnnagctnac	tgcnaacttc	agnaggata	cgganccccg	caaggacaan	180
ctgcaanngc	gagagtatca	tggacactna	nggactgntg	ctttcatgta	cttccantgn	240
tggatcatgg	tatgacnaca	ttttancnan	ntgncatttg	a		281

<210> 651
 <211> 273
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(273)
 <223> n = A,T,C or G

<400> 651
 gggatccccga gctgtcctgc agctgtaccc tgagaactca gagcagttgg agctgatcac 60
 aaccaggcc acaaaggcag gcttctccgg tggcatgggtg gtagactacc ctaacagtgc 120
 kannntatan naatnttcct ttgttttnana tntgacctn ttncnntnt nctnttngct 180
 ntntatnnac ttnttcnaaa nctncttngn gtgntcngtt ctatctatnt atnttntntc 240
 tcntttcntt tntgnanttt tgattntatt tat 273

<210> 652
 <211> 267
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(267)
 <223> n = A,T,C or G

<400> 652
 cttgggctgc ttattacgt cactattatc aacagcaagc acagccacca ccagcagccc 60
 ctgcagggtgc accaactaca actcaaacta atggacaagg agatcagcag aatccagccc 120
 cagctggaca gggtgattat accaaggctt gggatgagtg ctncnnnata atggntcnnn 180
 nnnnttntnt nncttntnt ntaaaantnna nnnancntga atttancnnn attcataaac 240
 nnnatnnntc nnctntntnt aantcta 267

<210> 653
 <211> 252
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(252)
 <223> n = A,T,C or G

<400> 653
 cccaggatgc ccttgagggg gccctccgac gcctgcttca ccacctttga cgctggggct 60
 ggcattgccc tcaacgacca ctttgtcaag ctcatcttct ggtatgacaa cgaatttggtc 120
 tacagcaaca ggggtggtgga nntnatggcc nacatgggct nnatnganta tnaanntggg 180
 atgtncennng ngnatcnann nnnnnegatt cnttnttttn antttctgtt tnnctttnaa 240
 tntcgnnttt nt 252

<210> 654
 <211> 260
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(260)
 <223> n = A,T,C or G

<400> 654
 aagactttct cctaattgctt ggaaaacccat aactgacata gttctaaatg gcacagtctt 60
 cgtgacacta gatattggaa aacaactaat taaagctcat aaaggagcag cattcctttt 120
 tatttctacn attnntgttn atactgtatn nntnntnnn ttectatctt nnnnttntnn 180
 attnctntnt ttnnnttatt cttnnntan tattgnattt ntnanttnaa nngnntctgt 240
 gnnntttttn gnnnttntat 260

<210> 655
 <211> 266
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(266)
 <223> n = A,T,C or G

<400> 655
 attttcaatt tggagcatta actaaatgct catacacagt taaataaata gaaagagttc 60
 tatggagact ttgctgttac tgcttctctt tgtgcagtgt tagtattcac cctgggcagn 120
 gagctgccan gctttctggt gnnttcttgn tccnctntc tattnnnnnt nctntctcgn 180
 cnnnctntt cctctggann cttcttctc tctnntttg tctnnntngn nctntctcnc 240
 tnnanttttn nntttctcnc cncctng 266

<210> 656
 <211> 291
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(291)
 <223> n = A,T,C or G

<400> 656
 gtggagctac agatgaagat gatggagctt gctaataaat cccttccac cccaagcttc 60
 ctttatgact gataactagc tccagctgcc ttttaagttca gtatccctag tgagctgact 120
 ttccccatct tgctctcttc tgctactttt tctgctcctt ctanacnntg ttgnctctcn 180
 tttagcggnn gcctactcta nntnctttt ngtttangnn cctaaananc cgggntnaen 240
 aatncttgcc ttgatctnct nnttttnggn gttnnntttt taattttgga a 291

<210> 657
 <211> 264
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(264)
 <223> n = A,T,C or G

<400> 657

ctttggaaac aatatgcaat gtgaagcggg cgtgttgtga gtttagtaag gctgtgtaca	60
ctgacacctt tgcagggcatg catgtgcttg tgtgtgtgtg agtgtgtgtc cttgcgcatg	120
agctacgctt gcctccactg tgcagacctg gtatgtggca tgaacatnag gaaggcctct	180
tttcatgac atggcntnca anagtgtcc gagcncntc tttgncatga taaaaaccga	240
tgctntntga ctgatgactc tgnt	264

<210> 658

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(300)

<223> n = A,T,C or G

<400> 658

ttagccagga tgggtctgat ctctgacct cgtgatccac ctgccgccc ctcccaaagt	60
tctaggatta ctggcatgag ccaccgtgcc tggccagcaa ttagaatttt aacactggca	120
gttatgaata atatgaagga gangtnnana tctgannnan nntggattag cnntcnnttg	180
ngctnctttc cgttcatctc atccacagct ttctgtgcat cttcatgcct ttcaaagctt	240
acaaatccaa atcctttgga ttttccactt tcatcagtca ttactttcac acttaaggca	300

<210> 659

<211> 270

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(270)

<223> n = A,T,C or G

<400> 659

aattagggct gctgtgatat tgtcagcttg cattaacaat tagaagatag agaaccggcc	60
atcaggggtg ctacctaaact tctcagggac tacacttggg agcnttccac cattnanaga	120
acngnnanct annancntt tgcennntta ncccaanngc ttntctcatt ctcannttcc	180
ttnnngccta nnnnnatnnt nnnatctttn cccctagtnc ctnccttnnc gccatcttct	240
tnntnnnnnt tgncttnann ttnntntcnt	270

<210> 660

<211> 266

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(266)

<223> n = A,T,C or G

<400> 660

aggacagaaa aatgggtggg attggagggg attttggaaa gtaaagtgtg tgggttaggg	60
actactggac atactgggag tacagtttgg ttaatgagcc tgaagtcctg gactaagngg	120
taagttccat ctggcctttt aacagggtact aattgntgtg tnnagtnagg gagttttttg	180
ntntttnttt nnnntntnnn tntctttttt tantntntnt ctncaccttc tccttntttt	240

tntntntntcn nttntntnt ttttct

266

<210> 661
 <211> 266
 <212> DNA
 <213> Homo sapiens

<400> 661
 gttaacaagc gtcataaaca ggatgcacgt ggtcagcgtc ccctacgcgc tgatgaaggc 60
 gaacccactc tcctggatcc agaaagtgtg cttctataaa gctcgggccg cgctggtgaa 120
 gtcgcgagac atgcactggt ctctcctagc tcagcggggc cagagggacg tcagcctcag 180
 ctactgcgc atgctgattg tggccgatgg tgccaacccg tggtcgatct cctcctgtga 240
 cgcttcctc aacgtcttcc agtcca 266

<210> 662
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 662
 agaagaagca gttgaacagt tcttttagagt tgggtgaaaa aaaatcatag ccccaactaa 60
 aaatgctggg gtcacaattg aagaggaaaa aaattcacaa ttgacctgaa tagtaaatc 120
 tctaattgtg gatcttgcac taatgaaaaga tctgggttaa gccctcaagt ctaatgattg 180
 ataccaagga aggcattctg cagtattgcc agaagtctac cctgaactgc agatcaccaa 240
 tgtggttagaa gccaaccaac cagtgaccat ccagaactgg tgcaagcggg gccgcaagca 300

<210> 663
 <211> 264
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(264)
 <223> n = A,T,C or G

<400> 663
 ctgcactgtg aacctgggca ctccgcgccg atgccaccgg cctgtgggtc tctgaaggga 60
 ccccccccaa tcggactgcc aaattctccg gtttgccccg ggatattata gaaaattatt 120
 tgtatgaata atgaaaaata aacacacctc gtggcaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaatt aaatataatt taatannana 240
 aaaannanaa naanntntnt anat 264

<210> 664
 <211> 147
 <212> DNA
 <213> Homo sapiens

<400> 664
 gctcggtttg agggctcggc gcgggggtttc ctgttctctc ttctgcgcgg ctgcagctcg 60
 ggacttcggc ctgaccacgc ccccatggct tcagaagagc tacagaaaga tctagaagag 120
 gtaaagggtg tgctggaaaa ggctact 147

<210> 665
 <211> 280
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(280)

<223> n = A,T,C or G

<400> 665

aattcaaggc	ctgtcgcagcc	tctagaacta	tagtgagtcg	tattacgtag	atccagacat	60
gataagatac	attgatgagt	ttggacaaac	cacaactaga	atgcagtga	aaaaatgctt	120
tatttgtaga	atttgtagatg	ctattgcttt	atttgatatcc	attatatgct	gcngntaaac	180
tagnnancan	ctacnnttgc	nttcatttta	nnttnagtt	ntntnnntnn	tttttggtgn	240
ttttgtnta	ntttnctntc	tttatntntt	tttttttttt			280

<210> 666

<211> 288

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(288)

<223> n = A,T,C or G

<400> 666

gtaggggagg	ggctccctttc	cataaatcct	tgatgattga	caacacccat	ttttccctttt	60
gccgacccca	agagtttttg	gagttgtagt	taatcatcaa	gagaatttgg	ggcttccaag	120
ttgttcaggt	cctctgacac	cttttggtat	cgttaatatt	actgatttgt	gtagaatgtc	180
agttgtattt	taccagctaa	tatctagaaa	tgctggcaag	aggggtttac	tccagcttta	240
gattgnaggt	atgctacctt	ntttcataca	gngnnttann	nttactga		288

<210> 667

<211> 163

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(163)

<223> n = A,T,C or G

<400> 667

tgaaattcag	ctaaccgagc	agctacggtc	cctcatcccc	aacgaggatg	tgagaaagtt	60
catgtctcat	gttatctgga	ccttgaaaat	ggaatgttca	gaaacacatg	tgcaaggagg	120
ctgtgccaaag	ctcatgtcgc	gaacaggcct	nctgatgaag	ctt		163

<210> 668

<211> 262

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(262)

<223> n = A,T,C or G

<400> 668

ataaaatcga	taaggaaaat	cgtgaagtcg	atagaaatga	aggcctgaaa	tttgcacgaa	60
agcattccat	gttatttata	gaggcaagtg	caaaaacctg	tgatgggtga	caatgtgcct	120
ttgaagaact	tgctgaannn	atcnttcana	cccntggact	gtgntaacng	tncntntcnt	180
cntnncnntt	nntacctctt	cnnggnnncn	ntccctattn	ggnatntntt	ntngnnnnng	240
nctnancctt	ttannttttn	tt				262

<210> 669

<211> 291

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(291)

<223> n = A,T,C or G

<400> 669

accaagtgc	tttagttgaa	tgaagtcttc	ttggatttca	cccaactaaa	agtattttta	60
aaaataaata	acagctcttac	ctaaattatt	aggtaatgaa	ttgtagccag	ttgttaatat	120
cttaatgcag	atTTTTTTaa	aataaacata	aaatgattta	tctgtatttt	aaaggatcca	180
acagatcagt	atTTTTTcct	gtnatngnat	ttttnnantt	tgnncatttt	tannntantt	240
nanntgttna	tntttnttct	anntcttatn	tttntngctt	atTTTTTTTT	t	291

<210> 670

<211> 264

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(264)

<223> n = A,T,C or G

<400> 670

acaagaaaa	tgattcaaaa	aactgctgag	ccacttttgg	ataaggaatc	aatttcagag	60
aatcctactt	tggttttacc	ttgtttctata	gggagaactg	agggaactgc	acattcatcc	120
agtacctcag	atgtggatnn	nccggngnct	tctnnggctn	tttannttnn	ttcnnggtnc	180
ntnntntgga	nttnttattc	tnttncntcg	tncantngtg	ccnttactnt	tntcntnnnc	240
cnntanntgn	tnnnannngt	cntt				264

<210> 671

<211> 261

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(261)

<223> n = A,T,C or G

<400> 671

gctcactgaa	gcttaagtga	ggatttcctt	gcaatgagta	gaatttcctt	tctctccctt	60
gtcacagggt	taaaaacctc	acagcttgta	taatgtaacc	atTTgggggc	ccgcttttaa	120
cttggaactag	tgtaactcct	tcatgcaata	aactgaaaag	agccatgctg	tctaggctac	180
aacnnnnntn	tnnaannngn	nnnnnnngctt	tnngcncccn	tttgnnnccn	gnngggaann	240

nnnaccnnnn aacnnntttt t

261

<210> 672
 <211> 251
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(251)
 <223> n = A,T,C or G

<400> 672
 attcatttct ctaacagcag taatattaat aattttcatg atttgagaag ccttcgcttc 60
 gaagcgaaaa gtcctaata tagaagaacc ctccataaac ctggagtgc tatatggatg 120
 cccctcacc cacaaccacc accaccacaa taaacaagtt gctgacagcg gaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa anaaaaaaaaa 240
 ataaatnntn t 251

<210> 673
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 673
 ctgggtttca ccatattggc caggctgggc tcgaactcct gacctggtga tccccctgcct 60
 cggcctccca aagtgccagg attacagacg tgaagcactg caccgggccc acactgtagt 120
 ttttttagca gacagtttca tggcctactt cactaagtag atggagatat ccccccatct 180
 tccatggaaa tgtctttctt acttgctctt tatttctcta tcttagaaaa agaggaatcc 240
 agtcgggctc ggtggctcac acctataatc tcagcctcct gagtagctga gactacagcc 300

<210> 674
 <211> 267
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(267)
 <223> n = A,T,C or G

<400> 674
 accagattgt tttgcttcag cctcaggtga tcagactctg agaatatggg atgtgaaggc 60
 agcaggagta agaatcgtga ttctgcaca tcaggcagaa atcttgagtt gcgactgggtg 120
 nacatnctat ganaatttgc tggngancnn tncgnttnan ttntttntn tttntntnnn 180
 ntgncttttn tcnnttatct tntntcttn nntnacnenn ntenagtnng tcnngnatct 240
 ctnttttgnn ntntntnttt gtccgtt 267

<210> 675
 <211> 266
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(266)

<223> n = A,T,C or G

<400> 675

ctccaagggtt	ggctccacgg	aaaacatcaa	gcatcagcct	ggaggaggcc	gggccaaaagt	60
agagaaaaaa	acagaggcag	ctgctacaac	ccgaaagcct	gaatctaata	cagtcactaa	120
aacagtcggc	ccatttgcca	aattgcnntt	tcntntntnt	ntatattgtn	ttntnnttgt	180
tttaantntt	ntnctntaa	ctnntntnnn	ttcttttnan	gannttnttn	nnatttnttn	240
cgtntttttt	attnaattng	tttntt				266

<210> 676

<211> 300

<212> DNA

<213> Homo sapiens

<400> 676

agaaagattc	tcgcttaaaa	aaatgtat	atatttatggc	aagttggaaa	aaatgtaact	60
ggaatctcaa	aagttctttg	ggacaaaaca	gaagtccatg	gagttatcta	agctcttgta	120
agtgagttaa	tttaaaaaag	aaaattaggc	tgagagcagt	ggctcacgcc	tgtaatccca	180
gaactttggg	aggctaaggt	gggtggatca	cctgaggtca	agagttccag	accaggctgg	240
ccagcatggt	gaaaccccg	ctgtactaaa	aatacaaaaa	attaactggg	catggtagt	300

<210> 677

<211> 300

<212> DNA

<213> Homo sapiens

<400> 677

ggtagaagca	gcaaagaaag	cccaccatgc	agcgtgcaaa	gaggagaagc	tggctatctc	60
acgagaagcc	aacagcaagg	cagacccatc	cctcaaccct	gaacagctca	agaaattgca	120
agacaaaata	gaaaagtgc	agcaagatgt	tcttaagacc	aaagagaagt	atgagaagtc	180
cctgaaggaa	ctcgaccagg	gcacacccca	gtacatggag	aacatggagc	aggtgtttga	240
gcagtgccag	cagttcgagg	agaaacgcct	tcgcttcttc	cgggaggttc	tgctggagg	300

<210> 678

<211> 291

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(291)

<223> n = A,T,C or G

<400> 678

gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	60
gagagagaga	gagagagaga	gagagagaga	gagaganann	gaganagana	nagagagagn	120
gagagagaga	ganagagagn	gnnngagann	nagagnngnn	cntcatctgc	ttntcncac	180
gcactcncnc	ctgnccctnc	gttntttgnt	tcctgatctc	acttccgtct	ngctcactct	240
cncnngctgg	ngattctgnc	ctgnnaacnn	atactnantt	ttntctttat	g	291

<210> 679

<211> 297

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature
 <222> (1)...(297)
 <223> n = A,T,C or G

<400> 679

gagtcaggaa	ggtaaggcgg	ggagtgactg	aataaaactct	gcctttttaa	ttgagcatct	60
gggccgggca	tgggtggctca	cgcctgtaat	cccagcactc	tgggaggtcg	aggtgggacg	120
tgtcatgctg	atccagtttg	tgaacgtgct	gctncaggtc	ctggtccaca	agtcccatga	180
tcttntnnan	gaggagattg	gcategccat	ntacaacatg	gcctcagtca	antttgatgg	240
ctcgtttgce	gnnttntctc	cngagttcnt	gaccnctnt	natnntgtng	attcctg	297

<210> 680
 <211> 266
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(266)
 <223> n = A,T,C or G

<400> 680

gaacctcatc	aggaggactg	aaggaaagga	gccaggctgc	agccctctgc	ctgcccttcc	60
gtgccatcat	ctccaggatt	aatgaaaggg	ccattcagga	aacagcacag	ggagctacaa	120
atttacgggt	tacttggtga	ttgatctttt	catccagcac	aatggacaga	agtctaagga	180
acgtccttgt	ggtttccttt	gggttcctgc	ttctctttac	agcctatgga	ggtctgtaga	240
gcctgcngag	cagtcngtac	agtttag				266

<210> 681
 <211> 259
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(259)
 <223> n = A,T,C or G

<400> 681

ggacagcact	tagtagctgt	ggaggaagat	gcagagtcag	aagatgaaga	ggaggaggat	60
gtgaaactct	taagtataat	tggaaagcgg	tctgcccttg	gaggtggtag	cacggttcca	120
cagaatntag	tanaacttgc	tgctgatgan	gatgatgacg	atgatgatga	agaggnagat	180
natnnnttgn	nnatntnctt	nnntntnttt	nnnnnnnttg	ttgntntttt	nttncctnnn	240
ntnnnataaa	ttgtntttt					259

<210> 682
 <211> 295
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(295)
 <223> n = A,T,C or G

<400> 682

```

cctttgaatg taaagaatgt ggaagatcct ttagaaatcc ctcatgcctt aatgatcaca      60
ttcaaattca cactggaata aaaccacaca agtgtactta ctgtgggaaa gccttcacta      120
gatcaactca acttactgaa catgtaagaa ctcacactgg aataaaaacc tatgaatgta      180
aggaatgtgg ccaagccttt gctcagtact cgggcctttc tatacacata cgaagtctca      240
gcggnangaa nncctatcag tgnnaggnat gtngnannng cntcnctact ccctc          295

```

```

<210> 683
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 683
actataggcg cccaccacga cgcccggcta attttttgta ttttagtag agacgggggt      60
tcaccaggtt agccaggatg gtctcgatct cctgaccttg tgatccgccc gcctcggcct      120
cccaaagtgc tgggattaca ggcgtgagcc accgtgcccc gcctacaaat gttaacaaaag      180
caattaccaa tggccttttt acatattttt tctttaatga ggaataatat gcatgtagaa      240
aagacctact taaagtcttc atttatattc tttcaaatca aatctttatt taataactta      300

```

```

<210> 684
<211> 291
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1) ... (291)
<223> n = A,T,C or G

```

```

<400> 684
aatttggtc gcagcgcagc cgtggcccggt gcttctcttc actcatccca gacacagggt      60
gggggcagcg tcacaaaaaa gcgcaaaactg gagtccactg agagccgcag cagcttctca      120
cagcacgcac gcactancgg gcgcgtggtc gngnaggagg agnncntagg gacgtatctg      180
ctatgaaaat cccaaanttt tcagatagng ccctaaaaaac aattttatat gccncactgg      240
ttggtattct taggnatttc ccacacttga ctttatcatt ggtactacta g          291

```

```

<210> 685
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1) ... (300)
<223> n = A,T,C or G

```

```

<400> 685
agagagagag agagagagag agagagagag agagagagag agagagagag agagagagag      60
agagagagag agagagagag agagagagag agagagagag agagagagag agagagagag      120
agagagagag nnattnnctc tntntnctcc tctctctcnt tttntcccc ctnttttccc      180
ttntttnttc gntntttntc nttententt ctctntctcg tctcnnntnt nttncnttn      240
cctctccttt tttcttntct ctnttnntcc ttcctnctct tcttgttctc ttctttcttt      300

```

```

<210> 686
<211> 238
<212> DNA
<213> Homo sapiens

```

```

<400> 686
gaaatacttt gtgcagctct gtggggtgta aaccttctgg tggggactga aaatggcctg      60
atgcttttgg accgaagtgg gcaaggcaaa gtctataatc tgatcaaccg gaggcgattt      120
cagcagatgg atgtgctaga gggactgaat gtccttgtga caatttcagg aaagaagaat      180
aagctacgag ttactatct ttcattggta agaaacagaa tactacataa tgacccag      238

```

```

<210> 687
<211> 285
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(285)
<223> n = A,T,C or G

```

```

<400> 687
cgagccacaa gctgcactgt gaacctgggc actccgcgcc gatgccaccg gcctgtgggt      60
ctctgaaggg acccccccca atcggactgc caaattctcc ggtttgcccc gggatattat      120
agaaaattat ttgtatgaat aatgaaaata aaacacacct cgtggcaaaa aaaaaaaaaa      180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aataaannnn nnnnnnaaa      240
aaaaannngg gnnntnnnna nnaaaannnn aaaaaaaaaa aaac

```

```

<210> 688
<211> 253
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(253)
<223> n = A,T,C or G

```

```

<400> 688
cgagccacaa gctgcactgt gaacctgggc actccgcgcc gatgccaccg gcctgtgggt      60
ctctgaaggg acccccccca atcggactgc caaattctcc ggtttgcccc gggatattat      120
agaaaattat ttgtatgaat aatgaaaata aaacacacct cgtggcaaaa aaaaaaaaaa      180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaannnc nnnntnnnaa      240
aaaanttggt ggg

```

```

<210> 689
<211> 262
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(262)
<223> n = A,T,C or G

```

```

<400> 689
ccagcattca aaattcccat gcttagggaa tccattggga cttctcccca ggatgtactg      60
aattcaagga agctttctct aggtgtagca gaaactgctg ctggnatgtc tctgctcacc      120
aggacgtngg ttctntntac agncctttat ttgntnnnnn tggnggnant agntntntgn      180
ccctggnanc tagnnnantg gggntnnnan ntnttggtan ttngcgtcat nttnnttgn      240
nnattacnnn ntntgntgcn tt

```

<210> 690
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 690
 acaccttcat tgctgtatct ccggtgtgta tcagctctcc aactctatgt cataattcag 60
 ttcattgggga tcttgattac ctttcccttc cacaaaatat tacactgatt gggtatatcg 120
 atgacattat gctgatttga cctagtgagc aagaagtagg aactacatta gacttagtgg 180
 aaagacattt gcatcagagg gtaggaaata aatatgacta caattcaagg gccttctacc 240
 ttagtgaaat tggtagggac ccagtgacat ggggcatgtt aggatatttc ttctacggtg 300

<210> 691
 <211> 264
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(264)
 <223> n = A,T,C or G

<400> 691
 atagcactga tgctgggcca acaattagcc ccatttgtac ctttttaca actttttgac 60
 aattgccaa aatcgtccac cttccctccc cattgaatta aatacacttc ttgtctcatg 120
 gatactcaga ataccaatca aggtaacaga tgccctttatt ttaactaagg acacagtaca 180
 gatctcacag ggacactcct tattccttgc agagtttcag acactactga gggtcaccat 240
 agcancnttt nactngaann cnca 264

<210> 692
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 692
 ggataccgta tcgacgtggg gcctccgggt gctgctaaat gggaaaaact tagcttagta 60
 ctgatagatg actttattga aagtggaaact gaacaagtac tctactttt taaggactcc 120
 ttgaactcag actgcctgac ttcatttaaa ataacggatc ttggaaaaat aaactattcg 180
 agtgaaccat cagattgcaa tgaagatgac ttatttgaag acaaacaaga gaatcggtac 240
 ctggtggttc cacctctaga aacaggactg aaaagcacat ggaagatctt tttgcacttc 300

<210> 693
 <211> 282
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(282)
 <223> n = A,T,C or G

<400> 693
 atgaaccatc tgcttttaat gattttcaga ggccagccat ttattacatg atgtcattca 60
 gggattggta tgagatgcaa gatgctggaa ttacttcaga ctcaatgatg aagaacttct 120
 tctttgtgcc ttcttgcntt cacntgagcc nnanacgctc gcttttcngn tgcngcttaa 180
 actggccttn ccgctnnnnt anntntgctn ntggacnccc catacgtaag cntcctttnn 240

ctnnnnngncc aggtcatnga tncnttcctn accntcaaatt tt

282

<210> 694
 <211> 300
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <222> (1)...(300)
 <223> n = A,T,C or G

<400> 694
 cccaagcccc atctcctcct ggcacgccct actccactgc cctggcagca gcagggtgtgg 60
 ccaatggagg ggggtgctgg cccccaggat tccccgagcc aaactgtctt tgtcaccacg 120
 tgggtgtcac ttttcatact tccnnaaatt acctagnccn cgnnntaaca tgganngnnc 180
 tgttgcccta nctaanggna caaccataac ctggctgccc atcatgtggt ccnacccaat 240
 caaggnnaga atgangaatg ctngactgga nccccctgga nccanattggc nanaggggtga 300

<210> 695
 <211> 300
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <222> (1)...(300)
 <223> n = A,T,C or G

<400> 695
 gcctggacac tgcaatatac atacatacat aaacataaac cggaaatcca tatgagcttg 60
 gaggtagagg agtgggtggt gttggatttg gtgggtgggtg ggaccctttn tgggtccttc 120
 ctggtncctt gagggcncna tnaggagtcc nttacttcct ttcttccttc atattttaca 180
 ggcnatgct tttcttataa tctaattaca tctttttatt tgttatatat tacaaacat 240
 nacacttata aatacttccn ngaantgctt ttttgaagtg tgaattaatn tnaaatgggg 300

<210> 696
 <211> 255
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <222> (1)...(255)
 <223> n = A,T,C or G

<400> 696
 gccccttggt catctgtgtc ttctgcaaac tagtctcatg aagaattctg gcgtgcagcc 60
 agggtagctg aagtttgggt ctgggactgg agattggcca ttaggcctcc tgagattcca 120
 gctcccttcc accaagccca gtcttgctac gnggtncatg gnataccnga ctnccttngg 180
 gcctnanttc ncnctttctt tttgtgtngn tcntaatnna tnantntntt nnnntntngt 240
 nnnntntctc ttntt 255

<210> 697
 <211> 293
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(293)

<223> n = A,T,C or G

<400> 697

cgaagctctc	tacgacat	ttt gcttcaga	aac cctaaagctg	accacgcccc	cctatgggtga	60
cctgaaccac	ctgggtgtctg	ctaccatgag	tgggggtcacc	acctgcctgc	gcttcccagg	120
ccagctcaat	gctgacctgc	ggaagctggc	tgtgaacatg	gtcccgttgn	cnangatgca	180
ctnattnttg	nccnnatttg	gccccatgaa	cagacgggnc	gnntgtcann	atctggccct	240
agnatacggc	tgnannatac	ancgtgagac	agntgtttnc	ataanagtgg	ctg	293

<210> 698

<211> 257

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(257)

<223> n = A,T,C or G

<400> 698

gacaacgaaa	gttacttggg	cttcctgagg	attacttgta	tggacaaact	accacatatc	60
tgacatataa	tgacttcac	aacaaggaac	ttatcttggt	ctcaaattct	gataacgaga	120
gatctatccc	ttctatgggtg	gatggnttga	acnnttanna	nanaannntn	nnntattcat	180
aattacancc	ctnacnnaca	nntactnann	gnacncnana	nnnnnatnaa	ttacatntnn	240
atnntatnct	nnnnct					257

<210> 699

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(300)

<223> n = A,T,C or G

<400> 699

caaaggggac	tatcctctgg	aggctgtgcg	catgcagcaa	gatctacgtg	gatgatgggc	60
ttattttctct	ccaggtgaag	cagaaagggtg	ccgacttcct	ggtgacggag	gtggaaaatg	120
gtggctcctt	gggcagcaag	aaggggtgtga	accttctctg	ngctgctgng	gactngcctg	180
cttngtccca	cancgncttt	cnaantctgn	tgtctnctnn	atntntngtg	tggtncntnn	240
ntnttntctt	annttntctnc	tactttttng	tgangnnncc	cantgannna	anccttgtcc	300

<210> 700

<211> 255

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(255)

<223> n = A,T,C or G

<400> 700

ctgaaagtag	ctaaggcacc	ccagccggag	gaagtgaagct	ctcctggggc	gtgggttgttc	60
gtgatccttg	catctgttac	ttaggggtcaa	ggcttggggc	ttgccccgca	gacccttggg	120
acgacccggc	cccagcgcag	ctatgaacct	gnanegantg	tcnnttgang	agaaattgan	180
cctntgccgg	angtactacc	tggtnnngnt	tngnttnatc	tnnngtntct	tatctgtctn	240
nnncttntcc	tcatt					255

<210> 701

<211> 300

<212> DNA

<213> Homo sapiens

<400> 701

acttggaaca	tggtgctaac	aaccacaagc	agaatttgat	gacgggtggca	aaccttggtg	60
tggtggttgg	acccactctg	ctgaggcctc	aggaagaaac	agtagcagcc	atcatggaca	120
tcaaatattca	gaacattgtc	attgagatcc	taatagaaaa	ccacgaaaag	atattttaaca	180
ccgtgcccga	tatgcctctc	accaatgccc	agctgcacct	gtctcggaag	aagagcagtg	240
actccaagcc	cccgctctgc	agcgagaggg	ccctgacgct	cttccacacc	gttcagtcaa	300

<210> 702

<211> 300

<212> DNA

<213> Homo sapiens

<400> 702

gtgaattgcg	ggaatctttg	tctgaagtgg	aagaaaaata	caagaaagcc	atgggtttcca	60
atgcacagtt	agacaatgag	aagaacaatt	tgatctacca	agtagacaca	ctcaaggatg	120
ttattgaaga	gcaggaggaa	cagatggcag	aattttatag	agaaaatgaa	gaaaaatcaa	180
aggagttaga	aaggcagaaa	catatgtgta	gtgtgctgca	gcataagatg	gaagaactta	240
aagaaggcct	gcggaacaaga	gatgagctta	ttgagaaaca	tggcttagtt	ataatccccg	300

<210> 703

<211> 262

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (262)

<223> n = A,T,C or G

<400> 703

tgagggtcag	tacgtattcc	tgcattcagt	catcctgcgg	ttcctccaac	agtcagccca	60
ggccccagcc	gagaaggaag	tcccgtatga	ggatgtcgaa	aacctcatct	acgagaacgt	120
ggccgccatc	cagggtcaca	agttggaggt	ctaantgacg	agggggctgn	ncggnatnnc	180
aggcattctc	atgctctnga	cncccantng	agnccatatn	tttngannan	tanangnnng	240
nnntgnnnna	ttntgtntnt	gc				262

<210> 704

<211> 300

<212> DNA

<213> Homo sapiens

<400> 704

```

ggatgaagaac cggatcactc tgcaggaagt ggtctccac tgcaagaagc tgaccaagag      60
gaataaggaa cagctgtcag atatgatggt tctggacaag cagaagggtt taaagtcgct      120
gagcaaagag aaacggcaga aactagaagc ataccaacac ctcttctacc tgctccagac      180
tcagcccac tacctggcca agctgatctt tcagatgcca cagaacaaaa ccaccaagtt      240
catggaggca gtgattttca gcctgtacaa ctatgcctcc agccgccgag aggcctatct      300

```

<210> 705

<211> 241

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(241)

<223> n = A,T,C or G

<400> 705

```

ctatagtgtg cactctgaaa tgtactcagt gaaaatttgt tttgagtttc attaatgcta      60
tttcaccagt tagacataat tactttctacc gatgtgaatg atacggatgc cggcagagct      120
tccagatctt tcagactcan ctgctagggtc aantactttg gnnntantnnn antntttntt      180
naananntgn nctttntttt nncctnnann tanttttana annnnnnnnna nncctttnaa      240
a                                          241

```

<210> 706

<211> 300

<212> DNA

<213> Homo sapiens

<400> 706

```

ggaatctgga aaaccagggg ctcatgtaac tgtgaagaag ctgtttgttg gcggaattaa      60
agaagatact gaggaacatc accttagaga ttactttgag gaatatggaa aaattgatac      120
cattgagata attactgata ggcagcccgg ctatcagccc ggatgacagt gacgaggaga      180
actgagggca cgtgggggtgc ggcagcgggc tagggcccag ggcagcttgc ccgtgctgcc      240
gtgcagttct tgcctccctc acggggcgctc acccccagcc cagctccgtt gtacataaat      300

```

<210> 707

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(300)

<223> n = A,T,C or G

<400> 707

```

aattcaaggc ctctcgagcc tctagaacta tagtgagtcg tattacgtag atccagacat      60
gataagatca ttgatgagtt tggacaaacc acaactagaa tgcagtgaag aaaatgcttt      120
atgtgtgaaa tttgtgatgc tattgcttta tttgtaacca ttataagctg caataaacia      180
gttaacaaca acaattgcat tcattttatg tttcaggttc agggggaggt gtgggaggtt      240
tttcctatgg gcatgggttg cttaccaaac gtgaactttg gccgctcncg ctctgcccac      300

```

<210> 708

<211> 298

<212> DNA

<213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(298)
 <223> n = A,T,C or G

<400> 708
 agacgctggt ggccctgtgg tgggagagga aaggaaggag aggggtgttg cagtcctttc 60
 acactggctt tgaagtcctg agatgaggaa attcccagtc tggccttgct gggctgtttg 120
 ctgctttgag tgtgtcctca tctgccggat ggtggngggag gctgaattga tcntngnctt 180
 tcnatatgcc angccccttn natcanngct gctganagcc cttctcctcn taatcctntt 240
 tnnctttctt cttgtncct nntccttttt gntgcnctnct angcntttng ntcttgtg 298

<210> 709
 <211> 274
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(274)
 <223> n = A,T,C or G

<400> 709
 aagaagctgc ggaagcccag acaccaggaa ggtgagatct tcgacacaga aaaagagaaa 60
 tttgtgagtc cacagctttt accaaaaatc aaagctattc ctcagctcca gggctacctg 120
 cgatctgtgt ttgctctgac gaatggaatt tatcctcaca aattggtgtt ctaaattgtct 180
 taagaacctt attaaatagc tgactacaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aacnnnnccc ntnaaaaann nngggggggg tttt 274

<210> 710
 <211> 295
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(295)
 <223> n = A,T,C or G

<400> 710
 gatgacctca acactgcctc ttgatttggt tgatgcatgt cactttcatt aattttcccc 60
 ctcttttttg aaagtcctgt ggcagtacta atattttcat tttatgtaat ctctgggtgct 120
 gctttccagt cactgtatga agtgtctccc caacactagc aaatctaggt cctactaaat 180
 acaaatctct ggggtggatga tcttctagta ctgtattttt aaattaagga gtttttagtta 240
 taatgaaatt gattttagt ctgttttgcc gttaaacttgn ttttctttaa attgt 295

<210> 711
 <211> 254
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(254)
 <223> n = A,T,C or G

<400> 711

gaaaaggcaa	gcaagccaca	gacagagaga	aaatagtcac	aaaacgtatc	tgacctccac	60
atcctgtaat	tagaattatt	gtgggtctgg	acactgcacc	cagtttctgc	aggagtactt	120
tctgggtgtc	tctattgagt	aagagagggc	cccatgggat	attcctacag	ttcccagatg	180
aacagtggga	aagactctac	nttncaantc	cngggtacnt	ntntctngng	ncctttntna	240
nngtcnanac	nnnt					254

<210> 712

<211> 298

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(298)

<223> n = A,T,C or G

<400> 712

gagcggcctt	acaagtgcga	tgactgcgga	aaggccttgt	cccagagctt	cgacctcatc	60
cgccaccagc	ggacccacgc	ggcgggcccgg	cgctgacctg	gggcccacgc	aggggtggga	120
ggtgagggca	gaagataagg	ggccaggagg	ctaatingant	ctttaggagg	gatatangng	180
ngaattccca	atanaatgna	ggacnnttat	ntnctggann	annacattga	tgctgtaagt	240
gatgtcngga	cnnncttggg	ncctgnncac	ccagnagnaa	ngnggcantt	cttacctg	298

<210> 713

<211> 265

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(265)

<223> n = A,T,C or G

<400> 713

gaagcacacc	tttgacagcc	acacctggag	gcccaggaga	catgaaatat	ggcatatatg	60
ctgtagagaa	tgagcatatg	aatcggctac	agtctcaaag	ggcaatgctt	ctgcagggca	120
ctgaaagcct	gaaccgggccc	acccaaagta	ttgaacgtnt	ttatnngnnt	gttcagagnt	180
tgtncttntt	ggatttnttt	ctttntngnt	tnanntgggt	cgtgtttttt	annnnctttt	240
ttnnctntan	ntcnggtcgc	ttata				265

<210> 714

<211> 300

<212> DNA

<213> Homo sapiens

<400> 714

ctgacccctc	gcttccagaa	ggagctgaag	gagatccagt	acggaatcag	agcccacgag	60
tggatgttcc	cggtgtgaag	ctgcaggctg	tgctccagat	ccaccgaccc	gtagcatctc	120
gtcacgccag	cactgcctc	cctaccaatg	actcacctga	aattgaaacg	ggcaggaaat	180
agtctggcag	cctctacagc	agaagaaacg	gcaggcagtg	cccagggtcg	tgcccaggag	240
gctgagcagc	tgctacgcgg	tcctctgggt	gatcagttacc	agacgggtgaa	ggccctagct	300

<210> 715

<211> 300

<212> DNA

<213> Homo sapiens

<400> 715

ctgagccagg	tgcgggat	aatcttgtgg	tgcgccgttt	tttaagccgg	tccgaaaagc	60
gcaatattcg	ggtgggagtg	acccgatttc	ccagctcaga	acctgaggac	gcagccatgg	120
agcggtcggc	cttcatggag	ctggatgctg	ggagcaggct	ggtgatgcat	ctccgcgagt	180
ggccagccct	gctggtcagc	agcacgggct	ggacagagtt	tgaacaactt	actcttgatg	240
gacacaacct	tccttctctt	gtctgtgtga	taacagggtc	ggtggacctg	ggtgtctgtc	300

<210> 716

<211> 300

<212> DNA

<213> Homo sapiens

<400> 716

ggtgaatgcc	acacccttca	agattgctcg	aggccagatc	ttgaagatac	tcacagggaa	60
gatatgggtg	gggcatgcca	tccacaacga	cttcaaagcc	cttcagtact	ttcaccccaa	120
gtccctcacc	cgtgacacct	cccataatccc	ccccctcaac	cgggaaggctg	actgcccggga	180
gaatgccacc	atgtctctga	agcatctcac	caagaagctg	ctaaaccggg	atatccaggt	240
tgggaagagc	ggacattcct	ctgtggaaga	tgcccaggcc	accatggagc	tatataagtt	300

<210> 717

<211> 300

<212> DNA

<213> Homo sapiens

<400> 717

tttagatgtt	ccagagtcct	cagagtccat	gaaaggactc	acagtggaga	aaagccctat	60
gaatgtaaac	aatgtggtaa	agccttcaaa	tattctagta	acctatgtga	gcatgaaaga	120
actcacactg	gagtgaacc	ttatggatgt	aaggaaatgtg	gtaagtcgtt	tacttcttcc	180
agtgcccttc	gaagccatga	aaggactcat	actggagaaa	aaccctatga	atgtaagaaa	240
tgtggtaaag	ccttcagttg	ttccagttcc	cttcgaaagc	atgaaagagc	ttatatgtgg	300

<210> 718

<211> 300

<212> DNA

<213> Homo sapiens

<400> 718

cggcggcggg	ggtggccttg	ggtgcggcct	caccatacag	gaacagggca	gacgttagcg	60
tgagtgatca	ctctcaatcc	cggggacctg	gtggccttag	tctttcaggt	ggaacgggtg	120
gcgacatggg	aaagaaaacc	aagcggacag	ctgacagttc	tctccaccc	ctgacaacca	180
ctcaccattt	tactacttct	atctttttga	ctttccaaga	atgtcctaga	gttggagtg	240
tacagtatgt	gggtttccag	actggccttc	ttctagcatt	atgtacttta	agttccttca	300

<210> 719

<211> 300

<212> DNA

<213> Homo sapiens

<400> 719

actcagccca	cctgcaccca	ggtgaaataa	acagctttat	tgctcacacg	aagcctgttt	60
ggtggctctc	tcacacggat	gcgcatgaaa	tttgggtgccg	tgacttggat	cgggggacct	120
cccttaggag	atcaatcccc	tgtcctcctg	ctctttgtct	cgtgagaaag	atccacctac	180
gacctcaggt	cctcagaccg	accagcccaa	gaaacatctc	accaatttca	aatctggcac	240
ccactggaaa	tcagactgcc	cagctcgccc	gacagccact	cctggagccc	ctaaagctct	300

<210> 720
 <211> 234
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(234)
 <223> n = A,T,C or G

<400> 720
 atacggcgtg gagatcagct cctccaccag cataatggga cccagcatcc ctgccaaaac 60
 tcgggagggtg ctcgtcagcc acctggcatc ttacaacaca tgggctttac aagggtattga 120
 gtttgtagct gccagctca agtccatggt gctaaccttg ggcctgattg acctgcgcct 180
 gacagtggag caggccgngc tgctgtcact cctggaggan gnnttcann ntnt 234

<210> 721
 <211> 300
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(300)
 <223> n = A,T,C or G

<400> 721
 gtggaagaag aaaagtttcc tacacaactg agcaggcata ttaagtttgg tcagaaatca 60
 catgtggagt gtgctcgatt ttctccagat ggtcagtatt tggtcactgg gtctgttgat 120
 ggattcattg aactatggaa ctttactact ggaaaaatca naatggntnt tanntnccan 180
 gccactnta cntntatnan gatgnangnn nccagnntac agtcntgatn tgtctccagt 240
 ctccacctnn cactgtctgg ttncngttgg tactatanga cccatgnnta caacttttgt 300

<210> 722
 <211> 261
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(261)
 <223> n = A,T,C or G

<400> 722
 gttaattcat tcctttccct gaaggagact gggctctggg ctccctgcgt ggtgaggatg 60
 aggagcagaa tagagctgca gtcagcaggg agcagggtc attctgggga gcagagacaa 120
 atagagaaca gtatctcttg ctatatgcag ggcactgcaa cttacaaatc acagcgcattg 180
 gcgaggacga ggggtggggg ggttcctcnn accatgnntn cnnnngttnt accccttnt 240
 cnnngnact ctnactnnna a 261

<210> 723
 <211> 275
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature
 <222> (1)...(275)
 <223> n = A,T,C or G

<400> 723
 gtggcaaagc ttcataccagt ctaggtcttc aggattttga tttgctccgg gtaataggaa 60
 gaggaagtta tgccaaagta ctgttggttc gattaataaaa aacagatcgt atttatgcaa 120
 tgaaagtttg tgaaaaaaga gcttggttaat gatgatgagg atattgattg ngtnncnncac 180
 gganaagcat ngtnntngan cgggcntttt ttcattcnnnt tcccncttn ncnntnntt 240
 tncctngcng ncccgattt tatnnncggt cctat 275

<210> 724
 <211> 280
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(280)
 <223> n = A,T,C or G

<400> 724
 agaagaattt ggtataatca tgaaagccct gtggacagga cagtatagat atatcagtc 60
 aaaggacttt aaaatcacca ttgggaagat caatgaccag tttgcaggat acagtcagca 120
 agattcacaa gaattgcttc tggtcctaata ggatggactc catgantatn ncgntatann 180
 ngatnncnnn ntagnntnnn tnnnnntenn ccccanctga ctttnnnntn cennnnnnnn 240
 ccngctaagn ngnttgcnnn ntnccccncg cagctccccg 280

<210> 725
 <211> 276
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(276)
 <223> n = A,T,C or G

<400> 725
 gtgacgcgca tgaatggatg aacgagattc ccactgtccc tacctactat ccagcgaaac 60
 cacatgccgt tggcaaccac aggtcattca gcgacaagaa tggcctcacc agcaagcggg 120
 agctgcccgc cgaagatgac atgaaaccag gaagctttga caggtccata cctgaaaaca 180
 atatcatgcg cacaatcatt gagttttctgc tttcttgcatt ttcaaagagg ccggggccntn 240
 naccgntcnt gaatttcccn gccganctt ttaaaa 276

<210> 726
 <211> 300
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(300)
 <223> n = A,T,C or G

<400> 726

```

ccgtgggact agggcgggcga tgggtgtccca tgcagagtgc cgtcctctgg gagtgtttga      60
gtgtgaactc tgtacnttga cagctccgta cagctatgtg ggacagaagc cccccaacac      120
ccagtcgatg gtgaatgcag tttattctac tccaagagat tctgcctccc ttgtgtccgg      180
gagaacatca atgcttttcc tcaggaaatt cggcaagact tggagaaaag gaaagctcca      240
tcaaagagga cccccagcca gcccggttct cggacgtgag tgcaactggg gctaggtcat      300

```

<210> 727

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(300)

<223> n = A,T,C or G

<400> 727

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ggaagctcca cgtgtagctg agctgcatgc accaggcctc agtttgcccc aagtccccctg      60
tgtactctct catggcctgt ggccaagaaa tgtattctct cactttggac ttaggagttc      120
aaagagaagc ccagaaacaa aattgcttga acctgaattt gtgtgctgtc gcacgtgtgc      180
acgtggtggt gaancnatat tnnttccacc nntggctnat nccatggcac cttcaaggct      240
tgatancggn aatcttgtca tnaatggaaa tcccatgnct tcttncanga tcgagattcc      300

```

<210> 728

<211> 298

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(298)

<223> n = A,T,C or G

<400> 728

```

gttattgttc tcggtgttcc taatcctcgg acttccaatg aagttcagta tgaccaaagg      60
ctcttcaacc aatccaaggg tatggacagt ggatttgcag gtggagaaga tgaaatttat      120
aatggttatg atcaagcctg gagagtggtt aaagatatgg nccagngcat ttatatggcn      180
nnatannnat ctgcennaga anatgtatgg ccgatgnccg tntnecgnac cntgnttnat      240
nannanattc nttnaccacn ctgnannntn tgtttcnnan cccncnccga ctttggat      298

```

<210> 729

<211> 245

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(245)

<223> n = A,T,C or G

<400> 729

```

gcttcaccca gccaaagagg tcgaagtggg tctggaaact ttggtgggtg tcgtggagggt      60
ggtttcgggt ggaatgacaa cttcggtcgt ggaggaaact tcagtgggtc tgggtggcttt      120
ggtggcagcc gtggtgggtg tggatatggt ggcatnggg atggctttcn tgnattngtt      180
ncttannnan gtatntntnn naannntgan tgttannntt tttntntnct tttnttnant      240
tntntt                                           245

```

<210> 730
 <211> 299
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(299)
 <223> n = A,T,C or G

<400> 730
 atttgaagca ccaaaccagg agaaagtttc agactatgaa atgaagttga tggattttaga 60
 tgttgaacaa cttggaattc cagaacagga gtacagctgt gtagtaaaga tgccttctgg 120
 ggaatttgca cgtatatgcc gagatctcag ccatattgga gatgctgctg gannnnnntg 180
 ngcntgngac nggnnnnnngn cntctgcatn tgcannatnn gctaagncna ctttntatggc 240
 ntctttgncg ccttcctncc atagttneng accagctgtg atggtgtgga tgcctgcct 299

<210> 731
 <211> 298
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(298)
 <223> n = A,T,C or G

<400> 731
 agacgcgctc ctgcgcgggt atttctggga aaagccagct tctgtttgca ctggctcttca 60
 caactcgtta cctggatctt tttacttcat ttatttcatt gtataacaca tctatgaagg 120
 ttatctacct tgcctgctcc tatgccacag tgtacctgat ctacctgaaa ttttaaggcaa 180
 cctacgatgg aaatcatgat accttccgag tggagatttt ggcggtgtcct nccccatgnc 240
 actgnatttt atanccttgt gactgtgtca tatanatanc tncntatata tatacata 298

<210> 732
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 732
 gtttgaaatg aatgcaatat taatagatgc atatatacat gacatattgt ggtaattttt 60
 aaaactactg tgccttaacg tgtttcttaa actttttagt taaatgaaca tttgaaatcc 120
 attttgataa acctgctgtt aatgtttttt ccccccttgt gaatgttttc taactttgtc 180
 ttggtaattg caatttaact aggtgcggtg gctactaaag ttcgaaggca cgatatgcgt 240
 gtccatcctt accaaaggat tgtgaccgca gaccgagccg ccaccggcaa ctaacctatg 300

<210> 733
 <211> 267
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(267)
 <223> n = A,T,C or G

<400> 733

cattaaactc	ccacagtggg	cacccactg	ctgatgtaca	gactttccag	gcaaagcgcc	60
atattcatca	acaccgtcag	tcttactgta	attataacac	tggaggtcag	ttagagggca	120
atgcagccac	ttcctatcag	aagcagactg	acaaaccag	ccactgtagc	cagtttgtga	180
caccttcgtg	gatgangaga	cagttctctg	taccantct	naaagctggg	nnanaaccac	240
ngnntanntn	agatatttgn	gccaaact				267

<210> 734

<211> 300

<212> DNA

<213> Homo sapiens

<400> 734

tcactgatgg	tttgetgttt	ggaagccatt	ggcagggctg	ccgtgcatgt	ggctgtgagg	60
gctgcacagt	cctgccaaag	ggcttctctc	ttgtcacccc	gaaccttgta	atcgtgtgct	120
ggcgtggcag	ccctggctaa	gttaatcccc	accgctttca	gtggtagaaa	gaattccctg	180
agtgggccag	gctggtgccc	tcctcctacc	ctggcttttc	tgagttagct	gcctggagcc	240
ctcatccctc	ctcccaggct	gggctggccc	tgggcggggc	cactgtgtgc	tggccactg	300

<210> 735

<211> 300

<212> DNA

<213> Homo sapiens

<400> 735

gtgactccaa	gcccacgtcc	tgcagcgaga	ggcccttgac	gtctttccac	accgttcagt	60
caacagagaa	acaggaacaa	aggaacagca	tcataactc	cagtttgga	tctgtctcat	120
caaatccaaa	cagcatcctt	aattccagca	gcagcttaca	gcccacatg	aactccagtg	180
accagacct	ggetgtggtc	aaacccaccc	ggcccaactc	actcccccg	aatccaagcc	240
caacttcacc	cctctcgcca	tcttggccca	tggtctcggc	gccatccagc	cctatgccca	300

<210> 736

<211> 281

<212> DNA

<213> Homo sapiens

<400> 736

ccgggctgaa	cagcctcacc	agcatgccat	gtactacctc	cgcttgctga	tgactgaagt	60
ggcctggact	aaagatgagt	taaaagaagc	tctggatgat	gtaacccttc	ctcgccctaa	120
ggccttcata	cctcagctcc	tgtaacggct	gcacattgaa	gcccttctcc	atggaaacat	180
aacaaagcag	gctgcattag	gaattatgca	gatggttgaa	gacaccctca	ttgaacatgc	240
tcataccaaa	cctctccttc	caagtcagct	ggttcggtat	a		281

<210> 737

<211> 295

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(295)

<223> n = A,T,C or G

<400> 737

gccacagcag	cagccacagc	cgcaggcgcc	ccagcaacca	cagcagcagc	agcagcagca	60
gccaccacca	tcacaacagc	ctccaccaac	acagcagcag	ccacagcagc	ttagaaatga	120

taacaggcag	cagttcaatt	caggtagaga	ccaagaaagg	tttggaagaa	gatcttttgg	180
aaataggggtg	gaaaatgatc	gggaacggta	tgggaaccgt	aatgatgata	gngatantag	240
tnaccgtgac	nggatagagn	gnggnagnag	nnnttttttn	ttntatnttt	ttttg	295

<210> 738
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 738						
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gtcccgtgca	tcaacggctc	gtgggaaccg	gaagacggct	ttcctgcttc	ctgcagcaga	180
ggcttgggag	aagagggtgct	ttatgataac	gcaggcctgt	acgataactt	gccgcctccg	240
cacatctttg	cccgtctactc	tctgtctgac	agaaaggcct	ctaggctgtc	tgctgacaag	300

<210> 739
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 739						
tctggggccct	aggcctccac	aggagcaagt	ggggcctctg	atggtaaaag	tcgaggagaa	60
agaagagaaa	ggcaagtacc	ttcctagcct	ggagatgttc	cgccagcgct	tcaggcagtt	120
tgggtaccat	gatacccctg	gaccccgaga	ggccctgagc	caactccggg	tgctctgctg	180
tgagtggctg	aggcccgaga	tccacaccaa	ggagcagatc	ctggagctac	tggtgctgga	240
gcagttcctg	accatcctgc	cccaggagct	ccaggcctgg	gtgcaggagc	attgcccgga	300

<210> 740
 <211> 299
 <212> DNA
 <213> Homo sapiens

<400> 740						
ccgatacgag	gcaaacgggg	aagttaagca	aagaccaatt	cgcgttagct	atgtatttca	60
ttcagcagaa	ggtcagtaaa	ggcatcgacc	ctcctcaagt	cctctcgccg	gacatgggtcc	120
cgccttcgga	gagaggcacg	cccggcccgg	acagttcagg	ctctctcggc	tccggggagt	180
ttactggcgt	gaaggagctt	gattgacatc	agtcaagaga	ttgcccagtt	acaaagagag	240
aaatattcac	tggaacaaga	cattcgagaa	aaggaagagg	caatcatgac	agaaaacca	299

<210> 741
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 741						
ggatagccca	cctcatgttc	ctgtacctga	actctcaaca	gacactgtta	taaatgtgat	60
cactaatatg	acaaccacca	tccagagtct	ctttccaaat	ctccaggttt	tccctgcgct	120
gggtaatcat	gactattggc	cacaggatca	actgcctgta	gtcaccagta	aagtgtacaa	180
tgcatgagca	aacctctgga	aaccttggct	agatgaagaa	gctattagta	ctttaaggaa	240
aggtgggtttt	tattcacaga	aagttacaac	taatccaaac	cttaggatca	tcagtctaaa	300

<210> 742
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 742

agttaatgcg	ccagagggcag	cagcagcaag	aggctctccg	gaggttgag	cagcagcagc	60
agcaacaaca	gctggcgag	atgaagcttc	cttcttcttc	aacgtggggc	cagcagtcca	120
atacaacagc	atgtcagtc	caggccacgc	tgtcgttggc	tgaaatccaa	aaactagagg	180
aagaacgaga	acggcagctt	cgagaagagc	aaaggcgcca	gcagagggag	ttgatgaaag	240
ctcttcagca	gcagcagcag	cagcaacagc	agaaactctc	agggttgggg	aatgtcagca	300

<210> 743

<211> 300

<212> DNA

<213> Homo sapiens

<400> 743

ggaacgaggg	tttgctccat	ggaagtgtct	accagtctga	gtacatagac	ctctctgaaa	60
aaattaaaca	gggagatagt	agcctggagt	ttggcatcaa	acctgggtgac	ccacgcgttc	120
tgcagaagtt	agatgacgat	ggattgccgt	ttataggagc	aaaactgcag	tacggagatc	180
cgtattacag	ctacctcaac	ctcaacaccg	gggaaagtgt	tgtgatgtac	tataagagta	240
aagaaaattg	tggttggtg	aacatcaaag	tgtgcagtaa	tgacactggg	agtggaaaat	300

<210> 744

<211> 300

<212> DNA

<213> Homo sapiens

<400> 744

ggcagtcac	aggacctcag	tgtgatacag	ccaattgtaa	aagactgcaa	agaggctgac	60
ttatccttgt	ataatgaatt	ccgattgtgg	aaggatgagc	ccacaatgga	caggacgtgt	120
cctttcttag	acaaaatcta	ccaggaagat	atctttccat	gtttaacatt	ctcaaaaatt	180
ggcttcagct	gttctggagg	ctgtggaaaa	caatactcta	agcattgaac	cagtgggatt	240
acaacctatc	cggtttgtga	aagcttctgc	agttgaatgc	ggaggaccaa	aaaaatgtgc	300

<210> 745

<211> 300

<212> DNA

<213> Homo sapiens

<400> 745

aaccaacact	gatggcagca	gttccggaaa	tcattggatcg	gatctacaaa	aatgtcatga	60
ataaagtcag	tgaaatgagt	agttttcaac	gtaatctgtt	tattctggcc	tataattaca	120
aaatggaaca	gatttcaaaa	ggacgtaata	ctccactgtg	cgacagcttt	gttttccgga	180
aagttcgaag	cttgctaggg	ggaaatatte	gtctctgtgt	gtgtgggtggc	gctccacttt	240
ctgcaaccac	gcagcgattc	atgaacatct	gtttctgtctg	tcctgttggt	cagggatagc	300

<210> 746

<211> 300

<212> DNA

<213> Homo sapiens

<400> 746

ccgatacag	gcaaacgggg	aagttaagca	aagaccaatt	cgcgtttagct	atgtattttca	60
ttcagcagaa	ggtcagtaaa	ggcatcgacc	ctcctcaagt	cctctcgccg	gacatgggtcc	120
cgcttccgga	gagaggcacg	cccggcccgg	acagttcagg	ctctctcggc	tccggggaggt	180
ttactggcgt	gaaggagctt	gatgacatca	gtcaagagat	tgcccagtta	caaaagagaga	240
aatattcact	ggaacaagac	attcgagaaa	aggaagaggc	aatcagacag	aaaaccagcg	300

<210> 747

<211> 300
 <212> DNA
 <213> Homo sapiens

<400> 747
 gggactcgtt accatcactc ccaccacagg ctccgatggg cgcccagatg cccgggtccg 60
 cctcgaccgc agcaagatcc ggtctgtggg caagcctgct ctagagcgct tcctgcggag 120
 acttcagggtg ctgaagtcca caggggatgt ggccggaggg cgggccctgt acgaggggta 180
 tgcaacgggtc actgatgcgc cccccgagtg cttcctcacc ctcagggaca cgggtgctgct 240
 gcgtaaggaa tctcgggaagc tcattgttca gcccaacact cgccttgaag gctcagacgt 300

<210> 748
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 748
 atacagcaga gcctagaaca agaagaagct gaacataagg ccacaaaggc acgactagca 60
 gatgggaaat aagatctatg agtccatcga agaagccaaa tcagaagcca tgaaagaaat 120
 ggagaagaag ctcttggagg aaagaacttt aaaacagaaa gtggagaacc tattgctaga 180
 agctgagaaa agatgttctc tattagactg tgacctcaaa cagtcacagc agaaaataaa 240
 tgagctcctt aaacagaaag atgtgctaaa tgaggatgtt agaaacctga cattaaaaat 300

<210> 749
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 749
 gaaaccctat gtgtgtgata ggtgtgggaa ggccttcagg aacagctcag gcctcacagt 60
 gcataaaagg atccacacag gtgagaaacc ctatgaatgt gatgagtgtg ggaaggcata 120
 catctcacac tcaagtctta tcaatcataa aagtgtccac caggggaagc agccctataa 180
 ttgtgagtgt gggaaatcct tcaattatag atcagtcctt gaccagcaca aaaggatcca 240
 cactggaaag aagccatacc gatgtaatga gtgtggtaag gcttttaata tcagatcaca 300

<210> 750
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 750
 ctattactcg gcttcttagc attcgcattc ctgctctctt acccccagcg tccacagagc 60
 tggatgttcc tcacaatgtc caagtggctg cagtgggttg cattggcctt gtatatcaag 120
 ggacagctca cagacatact gcagaagtcc tggtggctga gataggacgg cctcctgggtc 180
 ctgaaatgga atactgcact gacagagagt catactcctt agctgctggc ttggccctgg 240
 gcatgggtctg cttggggcat ggcagcaatt tgataggtat gtctgatctc aatgtgcctg 300

<210> 751
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 751
 gaaattctgg tcctcccttc cgagcaacgt ttgcaacgat gagaggatgg ctgcaggaaa 60
 cggcaatgag gatgactgtt ggaatgggaa aggcaaaagc aggtacctgt ttgcagtgc 120
 aggaaatgga ttagccaacc agggcaacaa cccagaggtc caggttgaca ccagcaaacc 180

agacatactg atccttcgtc aaatcatggc tcttcgagtg atgaccagca agatgaagaa 240
 tgcatacaat gggaacgacg tggacttctt tgatatcagt gatgaaagta gtggagaagg 300

<210> 752
 <211> 292
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(292)
 <223> n = A,T,C or G

<400> 752
 aaattagctg ggtgtggtgg tgcacgcctg tgatcccagc tacttgagag gctgaggcag 60
 gagaatcact tgaactcggg aggtggaagt tgcagtgagn tganatcgtg ccactgaang 120
 atccnnntga gcnacanaat gagatnccat cncaaanttc agtacctana tccttanntt 180
 agagattgtn ttganacntn aanntcctgg accttatctg nngctcccct angctngngt 240
 nntctnnann ttntttntan tnngcntntt gctnanatna tantccagtg ca 292

<210> 753
 <211> 290
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(290)
 <223> n = A,T,C or G

<400> 753
 aattccgttg ctgtcgggtt tcaccatggt ggccacgctg gtctcgaact cctgacctca 60
 ggtgatccac cctcctcggc ctcccagaagt gttggtacta cagggtgtgag ccactgcgcc 120
 tggctggatc taactttttt tctccttggg tttactcgct cactttgatg gattatgttg 180
 tcttgtgttt tcccnntatt agaantcang ggaaatgant nttttganaa ctttcatatg 240
 tggctgantt nttgatcnat cntttaannn anathnagnat nnttctgact 290

<210> 754
 <211> 259
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(259)
 <223> n = A,T,C or G

<400> 754
 aattccgttg ctgtcgtgta ttaatgcact ttgaagttct ctggaattaa ttattttaac 60
 ttggcctagc ttcgactgtc aagggtggctg ttataaatTT gactcnattg tnagnnggatg 120
 aancctaagt cagctnanga ctnnatcata tntttnccnt gangnctgtc tgctngctca 180
 tgtatnactt nctntatcna nttgacngnt nnnnattctg anntgntggt ntgtactnta 240
 cnacaatcag agctgccct 259

<210> 755
 <211> 257

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(257)
<223> n = A,T,C or G

<400> 755
aattccggtg ctgtcgcaaa ctccctaggct caagcgggtcc tcccactgtg gcctcccaaa 60
gtgctgggtg gtgtgagcca ccgtgcctgg ccagttaatt tnttttancg tanntntttt 120
tnnttctnat atttatcngn tgcnnnctan nntnanatta nntntttttnan atnnnncnccn 180
ttcnnnnnna ccngtgnntt ngcatttnan nttttctaan tatnttaanc ntgatnattt 240
tnctgtnaan ttttnna 257

<210> 756
<211> 234
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(234)
<223> n = A,T,C or G

<400> 756
aattccggtg ctgtcgaaaa ggcttataac ttaggggttta gagaacagtt atgaggcatt 60
ctcattgcta aatcatgctc tgggggaagtc tgccatttaa tatgtcatag actagggcta 120
cctagtgtgt actgatggtg tttgagctga agaaaatgcg tgtgtgtttc tgtaaggtaa 180
gaggagcttg acattcacta aggagataat gaggcattga caggctgnnn tgna 234

<210> 757
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 757
ctactccttc tttttgcagg catcccatth nattcgaatt ccgttgctgt cgctttataa 60
tgcaatttcc agacccttta tcatccttgc tcttgatagc tgtttgctcag catccctctt 120
aaaatgtggt tcccaggagt ggacatgctg tgtcaacata tacactgaga cagttgacct 180
ctttgttctg ggccgagctc attaacttag ggactggggg tccagagtgt ctgtcaagtc 240
cctgaaatta actgtaaatt tttgtatgtc tagacatatt tatgggagga aaacttattg 300

<210> 758
<211> 300
<212> DNA
<213> Homo sapiens

<400> 758
aattccggtg ctgtcggcgg tataaaagta gctgtgttgg atggtaaaca cacaggcccg 60
attacctgtt tgcaattcaa ccccaagttc atgacttttg ccagtgcgtg ttccaacatg 120

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gccttttggg  tgcccaccat  tgatgactga  cctgttggt  gcttggctat  ttctgtatag  180
tgagggcggc  cagcaggaag  aaactcagag  ggaactgaga  taatagtggg  attggatcat  240
ttgactgggc  tggagaacat  ccttttacat  ggccttccca  tggatgtgct  gtacatctgc  300
```

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<210> 759
<211> 300
<212> DNA
<213> Homo sapiens
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<400> 759
cgttgctgtc  gggaatccct  gccaaaggtaa  cttgacagtc  ggcctaattc  tgttgacaga  60
aaatgaagcc  ttgacgggtc  taattatcca  aaagtgggtt  ttcacagga  cgtacagtca  120
gagtgtgagt  gcattctaata  gaaaacttct  tcagccctca  ttcaattgca  tacaaaagcc  180
ctcaaagaga  acatacagta  cagcagtttt  gtaaaaggca  acaatacgat  ttgtacagac  240
cccgcactc  caatcctata  gatcaccacg  ttgctcctct  gtccccagca  ccccttattt  300
```

```
<210> 760
<211> 300
<212> DNA
<213> Homo sapiens
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<400> 760
aattccgttg  ctgtcgaaat  ttgttttagct  tctcaattca  tgttccttag  aggatggtaa  60
attaaagtta  gcattcctgg  acagagcctt  tcatacattg  aagacaaccc  ggtgagtctc  120
aaggggagag  gtgtgggaga  gatgaaagga  tttctccagg  cctgttcggc  agcatggact  180
gttcttttag  gtaattaagg  gagaccatag  aagacaattg  tgtgagtcca  tttacctttc  240
acttgggggt  cttaagtctt  tggttgggct  tctttaaccc  tgtgtgtcac  ccacggactc  300
```

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<210> 761
<211> 300
<212> DNA
<213> Homo sapiens
```

```
<400> 761
aattccgttg  ctgtcgctcc  atttgacttg  caaaccagcc  ttttctaata  ggctaataatt  60
gctgaggcct  taaaggaaaat  ggacaaaaat  tatccagaag  gggtagcttt  ccattgtatc  120
tttctaataa  ggggtttaaa  tggtagctatt  atggtagctt  acttgggctt  taacatcaat  180
gttgctttga  tgttggttga  tataaatagg  aatttttaca  cattactatt  gtgaatgggt  240
aatgttcatt  tatgacctac  ttgtaattaa  cttgagttgt  agtccacagc  ctcaggacaa  300
```

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<210> 762
<211> 293
<212> DNA
<213> Homo sapiens
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```
<220>
<221> misc_feature
<222> (1)...(293)
<223> n = A,T,C or G
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<400> 762
aattccgttg  ctgtcgaaac  gcagtaatgc  atgaagagtg  ccgggcatgg  tgctgagccc  60
tgttcctgct  ctccctccag  ggctgctgag  ctagaattcc  cacctatgtc  tttccaaggg  120
actgttcacg  gcttgggact  tggctctgt  cctgccccat  cctcgctact  tgagaccacg  180
agccctgggt  cagncaccna  gngaagccac  ccacgggctc  atgaatcntn  aanncttnan  240
gcancnnatg  cctngcngcn  tggaaatnanc  ttannngntt  gacctgatgc  acc  293
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<210> 763
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 763
 aattccggtt ctgtcggaga gacctagcaa tgtgaagtaa caaagatcag gcagctgcaa 60
 gtgactcctg aatcttgagt ccagggcttt cgccactaca gtacagtggg tttcttttct 120
 ttggtcgggg agagtgggct ggaatggaga gtgaggccca caaattacct gcagagacgt 180
 ggagggcgtga gggagaacat gcttggttaa tatgcaggta gattaggaga caccaaacag 240
 agattcagac acagtaaggc tgggatgaga tcctcgaagc tgtgttttaa caaactccac 300

<210> 764
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 764
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 taaggcaaac tggcacattc tctatgaaaa agacaattat tgttcttggg caggtggcca 120
 gttggcccag ttgattttgg agcatagtgt taataaagggt tagtctcttc agatagtggc 180
 cagttgactt ggctatataa atagctgctg tcacgggcag gtcagaggta tgtgtgtgga 240
 tagactggat ctgtaaccac caatcagaaa tcaatcagca atcatttact gagcatttgc 300

<210> 765
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 765
 aattccggtt ctgtcggctc tacgatggag tcaaggccag attgggctct atttccacaa 60
 ccccttaagg agtagctcac cagtgtccta agtggtctgt tctcgggtga acatagtaca 120
 tatttgctgt cacgctggga ataccagtga gaattctcat catggacaga ggacatgatc 180
 atctttatgt ttgtaacctc gggcctggaa cagtctcctt ttgtgttcac ttgattctga 240
 aaggtcagtg ttttagaaca ggcttttcac atggttcacc aggaggccag ttagatcctg 300

<210> 766
 <211> 265
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(265)
 <223> n = A,T,C or G

<400> 766
 aattccggtt ctgtcgggtga gaaagtatgc cactctttaa ttagctctta taattggagg 60
 gttattccct gagtagagat taaaagctgg ggaaatgttg aatcctacaa aattcttgtg 120
 ttgccgtcac tccaggttgc tacaacactt tagatattcg tatgaggagg tcatatttgt 180
 tttacactaa cnggaaacta tgacaataan tatatgagta ncnn cattat antncttnan 240
 aatccaccaa gtgagnnnct gctat 265

<210> 767
 <211> 296
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(296)

<223> n = A,T,C or G

<400> 767

aattccggtg	ctgtcgggta	ctgagttagt	actgtataat	gtagtgagta	gtgatgatga	60
gcatggattg	attattggct	tatcttcttt	gtttttttgc	ttttgatttt	ctttattttt	120
ttttganang	cattgnccta	ntgaacntnn	aaactgaatt	aaggnccccc	nnnannnnca	180
cttncnntnt	nccnngggaa	aangcnccga	acccccatnt	naaanncacc	agctccaaca	240
cacgantanc	nttnatgagg	anttggctna	cnatgagaan	ccccgaaaga	agtaac	296

<210> 768

<211> 267

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(267)

<223> n = A,T,C or G

<400> 768

aattccggtg	ctgtcgggta	atttgacact	gctgctggca	gtagttctct	attcaccatt	60
ttaaagccca	ttcaggttct	ctcttctga	aaagaactga	ttgctgtgtt	tacatgaaat	120
gacattggag	tcagatggtc	tgttttaaag	atttctatga	cagcctattt	tcctgagttg	180
nananattgg	aggttccttg	nntcnntaa	aactgaanaa	cgcnngnaa	naggcnatga	240
ncgatctnct	gcnnagggcn	tttcatg				267

<210> 769

<211> 269

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(269)

<223> n = A,T,C or G

<400> 769

aatttcggtg	ctgtcgggacc	cagcaaattt	tttgtatttt	tagtagagat	gggggtttcac	60
catgttggtc	aggctggggt	cttaccaccc	ccttgaaagc	ctaccncccn	ccnccggennc	120
tnnaanagcc	nnnagtntan	gnnagtncna	ccnnaccnnn	netannenen	gtccnnntcc	180
atgnggncnt	ataccatnc	atnctacncc	atctctncnc	ccnnncagtc	atcnctacnn	240
tntctcacia	actccnccnn	tncttnang				269

<210> 770

<211> 300

<212> DNA

<213> Homo sapiens

<400> 770

aattccggtg	ctgtcggggt	tctgtagagg	aatgtcttcc	aggtgggaga	agaatggctt	60
tcatttttaa	caaccacaca	ctataaacia	agcatcccca	gagcacgggt	acctagcaga	120

agaagaacga agtagccagg aaacaagttg cttttcagca tccccactga aatgataggg	180
tacttttagaa agcgggtggt ggcattcttt ccacaagtac agcaagtgtc actgtgggggt	240
cttaattctc tcgaatctgc ctttagaagg cagaaggcag aatgatcagc tctgctctga	300

<210> 771
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 771	
cattgatgtg caaataatga gattccctat ctccttttag acctgggacg gcaaaaagggg	60
aggggaaggaa acttagcaga gtgctattga ctatagattc acatattagc aacaaaatcc	120
cgtaattctt ttggccaaca gcagctattt tggggagcag ctgtggctgt tacataaata	180
gagatgcagc caaaattttta ggccttttat cctgcttcta gcagaaaaat gcagggagag	240
tcaagtagtc tagggtttca ggttgectcc cctcatatgg tttttggcca agtgactaaa	300

<210> 772
 <211> 206
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(206)
 <223> n = A,T,C or G

<400> 772	
aattccggtg ctgtcgctga ttatccgaat gagtaagcag atgtctcact atgtggatgg	60
tccgttacct gggatattct gggntnctgt agntgaacta tgacagagga accagantca	120
taatgangen tctgatnagg ngaggcgtat ngagannatn nctccnnccn ttanctncct	180
nacantntaa attnntaata tacatt	206

<210> 773
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 773	
aattccggtg ctgtcgaaaa aggtcattcc cagtcttttt agactcctgt tttccagggg	60
gacatectct gatcctttga gcttcattgat gaatcacctg aattctgtag gcgacacatg	120
tggactagag cagattgata tgtttatact tggatactcc cttgaagtaa agataaaaagt	180
gttcagactg ttcaagttta actccagaga ctttgaagtc tgctaccagc aggagcctct	240
cagggactgg ccggagatct ccctgctgac cgagaacgac cgcactacca cattccagtc	300

<210> 774
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 774	
aattccggtg ctgtcggtca cttatgccta taagcgggca tacaacaggg gcacaataaa	60
tgtttgtaa gtgaatgagg gctttgagaa ctagatggga tcttagtcca actctcttat	120
ttaacgaggt ccacagaggt tctgcgattg tctaagaaag aaggctgtgt tcatggcctt	180
tgttgtttac gtggccctgt gattctcttg gctccgtgaa agtcctgatg cagacattcc	240
ggccatctag aaaggcatgc agacaagcca tccagctggc atgatcctga gtccagcttt	300

<210> 775
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 775
 cagagcgtgg caggagctct tggctggccc tgctgggagt ttcgtctcct agcagggtacg 60
 gaaagccatg agggatgctg ctctcagcaa caattctgcc ttaacagaga aggcagacca 120
 gtcctcagga cctggaggga ggatcatgtt tggaacttcat agctggaaaa gaacactgga 180
 ttttaggaac acggtcgcag aaagttaga ctaagaagta gattcttctg ggttggagca 240
 tatttccaga agagatgata aagttacaag gatgataaga tggtaataga tgccttgatt 300

<210> 776
 <211> 292
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)... (292)
 <223> n = A,T,C or G

<400> 776
 aattccgttg ctgtcgattc attttgtata atcatgtatc ctcttgtgtg ctggtagaga 60
 ttttaatect gatttttcca taaaacatga gtattaagaa ataattcctg gtttggagaa 120
 actggataaa tcaccctttt aaggaagaaa cactggaaat ttctgctaac accaagatat 180
 tnaagagtgg acatantagg tgcntnancn cattaattga nngaataaan gnttnnaaan 240
 actntcanan cncntatnct nnnctaannc tnttcnannn acnnnatatt tt 292

<210> 777
 <211> 299
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)... (299)
 <223> n = A,T,C or G

<400> 777
 aattccgttg ctgtcgggga agtggggcaa aggaatcagc tttaaaagcc ctaaatagtg 60
 acatgccctt atatattctg tcatcctctc aaggtagagg gctgaaacct cattatgctc 120
 aacttatgag gctttttgtt gtggttcctg atgctccttt gcagataata ctaatgcctc 180
 aggttcagcc aggccaccca ccatgtccgg tattctaccc agaaaaacaa gaaatcaccc 240
 ttccacctga tggccttttg gttttgagat tccttatgcn tatgtgactg anagaggac 299

<210> 778
 <211> 293
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)... (293)
 <223> n = A,T,C or G

<400> 778

aataccggttg	ctgtcgaaga	tgtaaagcca	cattgattca	ctcagccaac	cagatcaatg	60
gctcatttgc	actcaattta	attcatggaa	agacgaaagc	agagacagaa	caagccaaaa	120
gtgagtttcc	cttttgactt	attatcactt	ccacatntnn	ctggggagca	gattgtncag	180
agagagaaaac	ngnnagcnan	tgtgtcaagn	gttancnnnc	ggangaangc	ctcaaaacga	240
cntaangnng	nnnaagcagc	nngaancagc	tcnctgtggt	gaacncagaa	gtg	293

<210> 779

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(300)

<223> n = A,T,C or G

<400> 779

aattccggttg	ctgtcgcgag	gctccatgat	gcagcttacg	tcggggacct	ccagaccctc	60
aggagcctat	tgcaagagga	gagctaccgg	agccgcatca	acgagaagtc	tgtttggtgc	120
tgngtctgnc	tctactgcat	acnggtgcaa	ntntcggntn	nttttngnnn	anggtngctt	180
nngtnnnntt	gtanttttnn	ttatntcttc	tnnnntnctc	tttaatatcn	tnttnntntn	240
gtncntnantt	nttttnctna	anancncatn	tnantttncn	cnngtnttct	ntnctttctt	300

<210> 780

<211> 300

<212> DNA

<213> Homo sapiens

<400> 780

aattccggttg	ctgtcgggtt	gttacagaag	gagaaagtgg	cagttgaagc	atttcagatt	60
tgctgccttc	tcctacctcc	tgaaaatagg	agaaagttag	agctattgat	gaggatgatg	120
gcaaggattt	gcttaaacia	agagatgcca	ccccgtgtgt	atggcttttg	taccggaaca	180
ctgatgggtc	agacattttc	ccgttgcatc	ttgtgttcca	aggatgaagt	ggacttggat	240
gagttattag	ctgctagatt	ggtaaccgtt	tctgatggac	aattaccagg	aaattctgaa	300

<210> 781

<211> 280

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(280)

<223> n = A,T,C or G

<400> 781

aattccggttg	ctgtcggcat	atacagcaaa	ttaaaggacc	cagaaagctg	gatccaatag	60
tgacctgggt	acaccaatcg	gaatattgaa	tttggggaag	tcaagggtcg	ggatcaagag	120
gtggattgga	actaatgcca	tgtaggatgg	tatgactagg	cancantgtg	ttgtntctg	180
tntatatant	gggtgcctnc	ctntcttgtn	ttntccttgg	gtgntntnnt	ncnactanat	240
agtgactcct	nagtcggggn	cgctgcccct	gttgaatttt			280

<210> 782

<211> 262

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(262)

<223> n = A,T,C or G

<400> 782

aattccggtg	ctgtcggttaa	gttggttggt	cagtgtatgc	tggggacaaa	gaaaaactaa	60
caagccgacc	tgcttttatg	ataaattcta	gtgtgcttac	aagggatgac	ttcctgaggt	120
gtgatctgnc	caccttgaag	aactccacan	ntgannaagg	ggagctgtga	tancgagaat	180
tgggnnnnnn	catnnggtn	nancaanggg	nnntnangnt	naaanattccc	tgantnaaat	240
gnncnnnnnn	naaaaaattn	tc				262

<210> 783

<211> 299

<212> DNA

<213> Homo sapiens

<400> 783

aattccggtg	ctgtcggtca	aacaaaaaag	ggacatttat	gtgcagttgg	gacagcaaac	60
caagtccttg	acgtaaaatc	gaataaaaaga	cacattcata	tccaatagag	accacacctg	120
tattcatatg	ggaacaatct	ggaatagtga	tatcctcaag	gggtaaaaaa	tatataaata	180
tatatatata	tgacaaaagg	tatgaaatgc	aaaaaagaaa	aaaaaagggtg	acagccgcag	240
ttgatgctgt	gatggccgtg	aagtgtcctg	ggcctcccga	ggcctctgac	aaataaaca	299

<210> 784

<211> 261

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(261)

<223> n = A,T,C or G

<400> 784

aattccggtg	ctgtcggatt	tgtgtcttga	ccagggggcca	gatacagaga	atgtccccat	60
catgtacatc	tgccatggga	tgacgcctca	gaacgtgtac	tacacgagca	gtcagcagat	120
ccatgaggcc	attctgngcc	ncacngnnna	tgatnnnnac	accngataca	ncatgntgta	180
gtgccctnct	acagacantg	ncnatcagtg	nccncttann	ngacnccaan	nnanttnccn	240
nngtgtccct	ttannnaca	g				261

<210> 785

<211> 300

<212> DNA

<213> Homo sapiens

<400> 785

aattccggtg	ctgtcgcttg	tttttcagac	ctcgaactat	ggagaacagg	aattgaagcc	60
caggtggatg	gtccaatgcc	agaccatgga	tcatcagcct	gggacaccaa	agtgccacac	120
tctcagagtg	aggatgattt	ttaggaagtc	agctctacca	ccctccatac	caggaagtgc	180
aagcagactc	atctcatgat	cgagcagaat	atgagaatcc	ttttgaagtt	ataagtctgt	240
atggatttgt	agcacatgtt	catacaatta	gatgggacca	aatcccttaa	tttattaaga	300

<210> 786

<211> 262
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(262)
 <223> n = A,T,C or G

<400> 786
 aattcggttc tgtcggaagt tattgctttc caggggtcac tctggcttcg actccgtcgc 60
 tctcaattcg tcaccaggag gaagacggag ctggctgccc agcccaaagg cccatgaggg 120
 gatgcagtta tgggctctgt cgccgtggat tggtattttg tgtcagtann taatnctnt 180
 tgngcnnaca tgngnaagaa ncgntcnntg gnaananctg ttccnntcga agattncntt 240
 gagctnnnaa nccnttgnt nt 262

<210> 787
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 787
 aattccgttg ctgtcgcaag ggtcttctct ttcactcaag ctgccattct cctagccatt 60
 tgtggcttga caccccaaga gctttattct ctcttttcat tgcttgagtc caccaagata 120
 ccaagttagg tcacctttta ttttaaata gcccacaaga gggteccctc cttttcactt 180
 ttactcctct gctctaatac aggtcttcat aaatttttgg gotttttagct gatttccttg 240
 cctgcctctt tcaaagccct ttaccactg cggaatcata ttaccatgc aggactgcca 300

<210> 788
 <211> 285
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(285)
 <223> n = A,T,C or G

<400> 788
 gacaacttca aaaacaaatg agaagcccaa ggaactgtga gcaattaaaa gcaaaccgcg 60
 acaccctttg tctccaccac acatagtgtg ctttggaagc acaacgtcca ggctgggtacc 120
 gcagcgccat gccattcct nttntnattc nttggacact tcaatttctt nnatannntt 180
 attanntntt gnttttattt tanncnntct gntngctntt taaattttnn ntntctann 240
 ngttntnnan ntnananata ctntntnttn nactnttatt ttaca 285

<210> 789
 <211> 266
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(266)
 <223> n = A,T,C or G

<400> 789

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gtccgacgcg cctggctagg agcgccgacc gcagggcctc tacggacctt actagaaaaa    60
tgaaacctga tgaaactcct atgtttgacc caagtctact caaagaagtg gactggagtc    120
agaatacagc tacattgtct ccagccattt cccaacaca tcctggagaa ggnttggcnt    180
ngagnnctct nngaangnnn nnnnnnnnnn tggganntnn actgtctntt ncattngtnn    240
tntctttgan tttctattnn gncacg                                     266

```

```

<210> 790
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

```

```

<400> 790
cctggcantt tnccananat ctctaantnc gaagctgtcg aaagaccaca agtttcagag    60
catggagaca ttcctgctga atgccttctt cacctcctcg gcaattgctc attctagggt    120
tgggcatcat agttggtcag tcttaattcc catgccaaag gacaaacagg tgtgacattt    180
ggatagatga atactgggat tggctctgga gcatgtgttt tgagttgaac cttgcagtec    240
tttctctacg cccgtggatt ttgtggaaac actttgcaat ctctttgtct tttttttttt    300

```

```

<210> 791
<211> 292
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(292)
<223> n = A,T,C or G

```

```

<400> 791
aattccgttg ctgtcggcg ctctctgtaa gtgtttgtct gtgcaaaagg gaatagtgcc    60
gtggaggtgt gtgtgtccat ggcacccgga gcgaggcgac tgtcctgcgt gggtagccct    120
aggacgcaga gtgagggcnc canccanagt cagacccttt gnacctggna catngtanca    180
ttanacactt tatatacctg agccnatnag ccntgtncct caancancan cctgacttg    240
gatatgnnga anaggacnan tttgngncnt cnnatactnn tttngcttac tc          292

```

```

<210> 792
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 792
aattccgttg ctgtcgctca ctacctttgg accagccagg gctgtttata agtgctaaag    60
cccgaacaaa ccaaagagtt ggggagaaaag gcctaactaa cagctgagtg attgtctaac    120
agactgtctt ttaggccagt gactctggca tagggcaggc tgcatagccca gcaacatccc    180
ttaccacagg tctagtgatt cctctgggct caaatgtgga ggctacacac ccactcctta    240
gcagaggttg gcctggcacc tgctggtgcc ccaagaacta tggcatgggt agaccctggc    300

```

```

<210> 793
<211> 300
<212> DNA
<213> Homo sapiens

```

<400> 793
aattccggtg ctgtcgtcca ttctttggac acccaaactc agccccctta aagagtggaa 60
acaaaacaag ctgcactttg cagagggtgg aaatgaaagg actcttggcc taacttcaag 120
agtcccctgg ggtttgaagg ggcaaaagttt gagtctggat ggaacctggg ctgagggtacc 180
ttaagcttcc ccccgcaaca ccccgagctc agggattgag ggagttgtca gagatctgat 240
ggatccgaaa ggggcagggc caggggatta ggtttggggg cagaggttct gttttccagg 300

<210> 794

<211> 260

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (260)

<223> n = A,T,C or G

<400> 794
aattccggtg ctgtcgcggg gaagtggag cgccggggcc tgctgcgggg gggaggtgtg 60
ggaggtttta cnanatggga cttgggtata tttnttatta aantnattat nantntnta 120
tnactatntt ntatnnnat atnttttant ntnttcctta cnntntntnc ntntaaattt 180
ntntnctata ctntntttan ntntgntatn tatttttttn tatntntnta nttatattaa 240
tntnttttac atatnttaaa 260

<210> 795

<211> 300

<212> DNA

<213> Homo sapiens

<400> 795
aattccggtg ctgtcgcttg tatatccctt aaactcctca cctatatcac aaaaacctgc 60
caaggcagaa tacattccct tgggaaagga gctttggcgg gcaagcaggc atcgggtccc 120
atctgacacc agcgtgatcg ccacaggagc catctaggaa aggggaatgg aaactgagat 180
gctggcactt tgggccctgc caatgagcta aagcagtgtg taattaagga attgcacagg 240
cttccttccc caggacaaag cagcgcacag tcttcttggg ttactgtcct cttacagcaa 300

<210> 796

<211> 300

<212> DNA

<213> Homo sapiens

<400> 796
aattccggtg ctgtcgcttg ggtataacct aacccaaaga aaagtggcat gtgctgaaac 60
tgagtgtcac agagctgtga ggttgggtct tgggatttag cttcattttc cagggtttgc 120
cctttgccct tcaaccaaag gacaaagtca tgtaacagc tgctactaag tctatatgcc 180
cattcgttca taccacaaaa caggcatctg actcctctgg tcaccatgga atcaaggcac 240
tgtcaagtgg tgggggttcc acaggcacag tgggcttcac tctggaacag gattactggg 300

<210> 797

<211> 300

<212> DNA

<213> Homo sapiens

<400> 797
aattccggtg ctgtcggcca ggggaggtca aggctgcagt ggactgagat tgcaccactg 60
cactccagcc tggataacag agtaaaatct tgtctttaa aaaaaagta tgactcagca 120

gatggaggag cctcccattt ggtctttcct ttccgtttgg tttgtcttcc aaatctcctc	180
cagcctgctg tgtattcctc agcaactcac ttcaagcacc agcctgatcc tgtagatgaa	240
ccctgcataa ctttctccgt caacaaacac ctgaggatct gctgtgtccc cagtactagg	300

<210> 798
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 798	
aattccgttg ctgtcgactt ttcagaatgt tcatgatttt aatgagctga aagatagaga	60
ttcagaaaca cgagttgatc tgaaatttat gtacctggat cctccaagag atcatcacac	120
cttagagatt cagcagcaag ccctgctaag agagcagcag aagaggctga acagaataaa	180
aatgcaggaa ggtgccaaag ttgacttaga tgccatccca agtgctaaag tacgagagca	240
aagaatgccc agagatgaca ctagtgattt cttgaaaaac tcattattgg aatctgatag	300

<210> 799
 <211> 259
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(259)
 <223> n = A,T,C or G

<400> 799	
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gagcaagccc cgcattgtcca tggcgagtca ggtggggagc acgggtggaa gggccngctg	120
tnnactgatn gncnnccctg tgnnttcnag tgaganntcn gtantcnggg tgcactcent	180
gctgtacnct cnnccctatn ctgngnctac tctgatnatg antcnaccct tatnngnctn	240
netgtcentt tgetctcng	259

<210> 800
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 800	
atTTTTtagtt tttcgagtac accgtcccgag aaagaaatac gctataacac ccaccagcct	60
gagggtctga ttgctgtgga agcaggaatg gataccctta tcatgcatct ctgcgaagaa	120
actgccccag agaatcagaa gttcatcttg caggaggatg gatctttatt tcacgaacag	180
tccaagaaat gtgtccaggc tgcgaggaag gagtcgagtg acagtttcgt tccactctta	240
cgagactgca ccaactcgga tcatcagaaa tggttcttca aagagcgcat gttatgaagc	300

<210> 801
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 801	
aattccgttg ctgtcggcca agggctccac tccagtcctt tgctgtcaa tcagaagatg	60
ctcagaggag aggtctctgc atcatcttca tcttgacatt ccaagagcag taccgggtca	120
gcatccacaa aagcacactg taaaactggg aactgtgtct taaccttctt gaggtaaaaag	180
ggaaagttta tgcttcagcc tgaggcaggt gggcccttg ccatgcacac ctttgtcctg	240
cagccaggga tccacttggc tgggctcaac ccttccccgt cagggacgac tgcacagaaa	300

<210> 802
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 802
 ggttcctgcc ggctgtattc gggccttgga ctggactgag aagctacggg gcggatccag 60
 ctgggggtgga gaccatccat ggaaaagaac cccctgatg atacggggcc cgtgcacgtg 120
 cctttggggc atattgtggc caatgagaaa tggcgcggtg cacagctggc gcaggagatg 180
 caagatgctg cattctttat gtcaccgaag ctgatttggg ggcaggaaat ggctacagaa 240
 agaggcttgt tcgggttaga aattccaata atcttaaagg aattgtagtc gttgaaaaaa 300

<210> 803
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 803
 aattccgttg ctgtcggctg gtggcaccct cccctggggc ggaagactgg gaattcctgc 60
 taagtgtggc ttctagagt tttgtgtgta ccccgcttct gactgcctag ggcgagtggg 120
 catcctgtca tcctctccac tgtcccaagc agtcaactagg tggcgggccg gccagctgga 180
 acccagccca tcctctcagg cagagcaggg tgggtccggg acactggggc tgctctctca 240
 gcctcaggat gctcttgttt attctgggct cagaccctcc tcttgtacgt ctcatcacag 300

<210> 804
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 804
 aattccgttg ctgtcgagag gtcagtgggt ttgccgccgt gcatatcacg cccctccccc 60
 acgttccccc taccacagga cctccttggg acttacacgg agggccgagg tcagaaaagca 120
 cttctgggtc aagctgaggg aaggccgccc cccatccccc acccctgccc tgctctgcca 180
 ctcaacaccc tggcggttccg aacacccctc atggccaaag tgaccactcc ctgtctgctg 240
 aagtgttttc atcccatgac tcacatggac acccagccac cagcgtgggc tcaggcacat 300

<210> 805
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 805
 aattccgttg ctgtcggccc agggcctagc aatgtatctt caggaaaacg gcattgactg 60
 ccccaaatgc aagttctcgt acgcccctggc ccgaggaggc tgcattgact ttactgtac 120
 ccagtgcgc caccagtctt gcagcggctg ctacaatgcc ttttacgcca agaataaatg 180
 tccagagcct aactgcaggg tgaaaaagtc cctgcacggc caccaccctc gagactgctt 240
 cttctacctg cgggactgga ctgctctccg gcttcagaag ctgctacagg acaataacgt 300

<210> 806
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 806
 aattccgttg ctgtcggcct gcccgagggt cgggcccggg gtcagggccg cgcattggcat 60
 ccccgacctg gcccaaaaag tccatttcta tgaccgctgg gctccggact acgaccagtg 120

ctgggattat	aggcatgagc	cactgtgcct	ggtcctgctc	catgaatgta	gagaagagag	180
gcattttccaa	gaccaggtga	ggaatccaca	tggggtgcac	cctaaggcag	aaaggagagg	240
ggctgagcat	gagaacgagg	aggcgctggc	tggctgcagg	acaggaaatc	atagaggtgg	300

<210> 807

<211> 300

<212> DNA

<213> Homo sapiens

<400> 807

aattccgttg	ctgtcgtctc	cctcccagga	gcctggggat	gccaaacatc	cagaatgtga	60
tgggacaaga	tgggggcagg	ggcctcacct	ccctgcagag	gtccggccag	gtctccttgt	120
ccctggacaa	tctcctgagc	ctctctgctt	ggaggagcag	gcacctgtgt	gcagaattcc	180
cactgtggcc	agcacgagga	agtcttttct	agtgaaaatg	tgtcttgtgg	tcaggaataa	240
ttatcctttc	ccctgtagcc	accaaggagg	gcaaatagag	aaaggtaacc	taattgaagg	300

<210> 808

<211> 300

<212> DNA

<213> Homo sapiens

<400> 808

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gaatagcttt	tcagctaata	gatgatgtat	tggacttcac	ctcgcgttct	gaccagatgg	180
gcaaaccaac	atcagctgat	ctgaagctcg	ggtagccac	tggcctgctc	ctgtttgcct	240
gtcagcagtt	cccagaaatg	aatgctatga	tcatgcgacg	gttcagtttg	cctggagatg	300

<210> 809

<211> 300

<212> DNA

<213> Homo sapiens

<400> 809

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tacatgaagg	ttggttttca	atttgaacgt	ctagaaagat	actcatttct	aatacctatg	120
cactgtagtt	tcaggtttac	ttgcagacac	cctggtaggg	ttaagaggag	gatatattcca	180
agttatttta	aattgagttt	acttttaact	ggggttcttg	actctagtgt	aattgctcca	240
acaactacgt	agaagtcaaa	atgagtgact	ttagtgaagc	ttctgtactt	tacaatacat	300

<210> 810

<211> 300

<212> DNA

<213> Homo sapiens

<400> 810

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agcaaacgtc	cagaaaagtg	tttataaagc	aaatgtattg	cctctgttta	gagatttgcc	120
cagctgttcc	agtttttaac	attaaaaaat	aaactcagtt	gccatggcaa	aaatagaatg	180
cacagcttac	ttataatttt	ccatgcagta	tagcataagg	atttttgact	tgaaacaacc	240
aaagaactcc	tccttaacga	gacagttcaa	attcctgaat	tagtatttct	tgactatcaa	300

<210> 811

<211> 300

<212> DNA

<213> Homo sapiens

<400> 811

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gtcattttgt	caggctggtt	ataagccgga	ggcagcttta	accagccccc	agggatgatt	120
gtgaaggagg	ccccctccc	tgtgaggagg	gggcactcct	ctccagcccc	tggtagccaca	180
gtcctcacga	tgggtgcagt	atttctagcc	aggcgtcaag	atgcgctgct	ttccctctcc	240
tgcctcatcc	ttgttggcag	ctccagttca	ggccgtggag	ggacgtgatg	ctgggctgtg	300

<210> 812

<211> 300

<212> DNA

<213> Homo sapiens

<400> 812

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gagaccttaa	actgttcata	aaagtaagcc	ctaatagaaa	ggcagagcaa	taagagcaca	120
tgtgatgta	attctccttt	gcaaggagaa	tttcatttag	ttccattgtc	atatagacca	180
gtgtcacccc	ttttccctga	ttcctactga	taacaactat	ttttcagtgc	ctttgaagat	240
actgaccctt	ctacctgccc	agctgttttt	aaacagctgg	agcgtgatga	tggtcataaa	300

<210> 813

<211> 300

<212> DNA

<213> Homo sapiens

<400> 813

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caggcctgca	ggaatgtgct	tcattagctg	cagtgcgctg	gtgctgccta	acagaacgca	120
cactggctgt	cactaggaag	cgccatacgg	ttgtatcac	ccaacatggt	gaaaggggtga	180
tggatttcac	tgtgaatatg	ccaaggacac	ctctaaactt	cccccatgtc	agtcagatga	240
agttactact	atatttcacc	accctgcagg	taactgaaac	tcaattaccg	ctgccgctca	300

<210> 814

<211> 300

<212> DNA

<213> Homo sapiens

<400> 814

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atatttgcag	aagccatggt	ggagattcct	ttagctaaat	ataacatctg	gagaaagtag	180
cctcctgttc	acagcttaaa	aacagactga	ctttgtctag	gacgagaggg	aaaattgagc	240
ccgtttgggt	ctcctgacat	ctcctttcat	gtaatgaaag	ctcagtctgt	ctaacctctg	300

<210> 815

<211> 300

<212> DNA

<213> Homo sapiens

<400> 815

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aaattccag	ctgagagaac	ttagctgtgg	gtcctcagc	tactgacttc	ttagctctta	120
atccccctag	aatttcattc	ttctcgatga	gcaggtctg	caccactct	ttttttgccc	180
ccgccttca	tcctggagt	tgaggggtg	cgccgtact	ctcagctgcc	tctcaggac	240
tgcactgttc	ctcttcaccc	ccagggttct	gctaagatcc	cacgggcgag	ggcttgctct	300

<210> 816

<211> 300
 <212> DNA
 <213> Homo sapiens

<400> 816
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 ctctgcggcc agtgtcccca cctcctgcc tgtttcccta gtagcttggt ctttatccag 120
 aactgtgagg ctgctgtggg gtgcagcgtc cttaggaggg tcctgctgga gcagtggccc 180
 taagtgagtc tggactgtgt gaggcacccc agccctccac ggcaaggccg gggcctgggg 240
 gtgctggtgc ctgtgtgcag cctgaaggct gccctcttgc tgcttcagcg agtgggaagc 300

<210> 817
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 817
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 ggtgtagggt tagaaggaac tggattattg gtttattgca tttagaatgt cagtctggtc 180
 cttgcggtgt caagatgaac tcacgtggga tgtaattca cttgtaaaac tgagggttat 240
 acatatgtgc tcagggtatt ggctgaacag gtgctttggg ggtgctttta tgtgcccagc 300

<210> 818
 <211> 300
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(300)
 <223> n = A,T,C or G

<400> 818
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 tttgctgggc agtttttctg tattttataa gtatcttcat gtatccctgt tactgatagg 120
 gatacatgct cttagaaaat tcactattgg ctgggagtggt tggctcatgc ctgtaatccc 180
 agcacttgga gaggtcgagg ttgcgccact acactccagc ctgggtgaca gagtgagact 240
 ctgcctcaaa aaaaaaaaaa aanttcnntn ttacaancc taaactnttt aaaatccaaa 300

<210> 819
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 819
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 aggagagcaa ccccgaacta gtcttggtga tttagactag agcgtctttc actgctgtga 180
 ttctttcatt ggcactttct tccagttgta cagtgtctgt ctttgccttg tctttgcttg 240
 ttctaccctt agtttagcag atatccctct ctccatgaac aagggtgagt agctcttttt 300

<210> 820
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 820

aattccgttg	ctgtcgccaa	acaaacattg	cagggttgat	cctagtcttg	aaagttcggg	60
cctttcctct	tggcctgttt	ctggaggaaa	tgctcatgag	gtgggtgaga	ggcggatgac	120
atcctgtcgc	tctggcctca	ccctggggat	gccacatgac	agcaccgcag	cattttcaat	180
aggtgaccca	cctgcgagga	ggaaggaaaa	atgtgcccaa	ggccattatg	gagaacaaac	240
acctatgcag	ttggagaatg	ctgaagacac	ccaaggggtg	tgctcctctcc	ctcctgagag	300

<210> 821

<211> 300

<212> DNA

<213> Homo sapiens

<400> 821

aattccgttg	ctgtcgccac	tggtggcaag	aggtctgtga	tccccgttgt	gcctgggtgtg	60
gacagcctca	actcggccat	ggcggcaagc	atcctgcttt	tcgaaggga	aagacagctg	120
cgggggaggt	ctgggaagt	gagcaggagc	aggagtacc	actgaggacg	cagaagtgac	180
ttctgcttga	ggacgtctgc	agctcctcct	acaccagcac	actgggtggga	ggctggcgga	240
gtcagtgact	atggcccacg	ttcaggagga	aggtgtgatg	ccgtcataca	gttacaggaa	300

<210> 822

<211> 285

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (285)

<223> n = A,T,C or G

<400> 822

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gaaggcagct	ctgtttctct	gcagaggagt	agggctcctt	cagccatgaa	gcatgtgttg	120
aacctctacc	tgtaggtgt	ggtactgacc	ctactctcca	tcttcgttag	agtgatggan	180
tnctacagg	gcttactaga	ganccnatch	ccngngacct	nntggancan	cnnanccnn	240
ntancgaacn	nagagcncac	caanaggcct	naccaccatc	catcc		285

<210> 823

<211> 300

<212> DNA

<213> Homo sapiens

<400> 823

aattccgttg	ctgtcgcaaa	tctttgccac	ttctaaagcc	caaaaattac	tattccggat	60
catagattgg	ttactgctgc	cacatgcagt	attacagcaa	gagaagggaac	tgcttgacac	120
tatgttgtca	gcaattcaga	aaagtcttcc	tttgtatctc	cagggcatgt	gtatcgtgtg	180
ttgtcaatct	caaaatccga	atgcctatct	gaatcaattg	ctagggaatg	ttattgagca	240
gtatattggg	cgatttcttc	cagcttcacc	atatgtttca	gatcttggac	aacatcctgt	300

<210> 824

<211> 300

<212> DNA

<213> Homo sapiens

<400> 824

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gcactgtaga	tgggttaagg	aaaagacccc	tcacgtatt	tgatggaagt	tcaacaagta	120

caagcataaa	agtgaaaaag	acagagaatg	gagataatga	tcgactgaag	cccccccg	180
aggcaagctt	taccagtaat	gccttttagaa	aattatcaaa	ttcctcttcg	agtgtttcac	240
ccctaatttt	gtcttccaat	ttgcctgtga	acaataaaaac	ggaacacaat	aataatgacg	300

<210> 825
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 825						
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gcagcaaaaga	aaatgtggag	ctactgggat	cccagggtgca	ccaggactct	gtgaggacag	120
cacacctgag	tgatgatgat	taacaccttc	tggagccagc	tcatcagctc	agagcccagg	180
gtcaggagtt	cgttcagtaa	cgcagcggga	atcaatctgc	actgacaccg	cggcaggaac	240
tgaagctgcc	ctggcaagtg	aggaaccagg	agccgtcact	gagtgtggct	gggctacatc	300

<210> 826
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 826						
cccacactcg	agcccacccg	gccggccagc	tttagaggag	gggaggagca	gggcgagttc	60
acattattcc	ttttccatcg	gaagtggcgc	tcgtgcattc	aactcgttcc	cgctcatgga	120
acccctcttt	aaaaagacgc	agggcacctg	tgagcgcagg	agcgagccta	aggccaccca	180
gcggcagcgc	ccgtgtcctg	ggcactcagc	gtgctgggca	gagcagggtg	gatggcccca	240
gtcctagcag	ccctcgccca	tgtcctgtgc	ccttacatgg	ctcccggact	gtgcagggag	300

<210> 827
 <211> 267
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1) ... (267)
 <223> n = A,T,C or G

<400> 827						
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ctacgatcca	agatatcagc	caaggagccc	acttagggga	gaactagggtg	tccagatttt	180
tgtatgtgtt	gnttttcttg	ggggatgggg	tgggggtttn	nntccnntat	tnnnantgtt	240
tnnnmmnnan	ctntgncnct	ntacanc				267

<210> 828
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 828						
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gggctaataca	gggagtcggg	gctctctgcg	tgatgtcagt	tctatggcta	actgggtttt	120
ctaaaccagc	cagctgccta	tcaaaacagt	acaacttttc	taggaaatgc	aattggcaaa	180
gacacttacg	atgctgagaa	gtacacaagg	tgaaactgct	ccagtttttc	tcatagcagg	240
gtcagcagga	aagcaagtgg	tgcccctggg	cccatctcac	acaggtgaga	ctgcaccgag	300

<210> 829
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 829
 aattccggtg ctgtcgggtt gttgaaagtc cagatttttc caaggatgag gactacttag 60
 gaaagggttg aatgttaaata ggaggccgcc gaattgacta cgttctccaa gaaaaaccaa 120
 tagagagttt taatgaatac ctttctgctc ttcagagtca cttatgctat tgggaatctg 180
 aagatactgc tctgttacta cttaaagaaa tttatcgaac aatgaacatt agtccagaac 240
 agccccagca ttgatcaaac ttcagtttta ctgtactttc ttgtctgcac agaaagtccc 300

<210> 830
 <211> 298
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1) ... (298)
 <223> n = A,T,C or G

<400> 830
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 accactgggc acaaggaaca tcagaaacca gggagcagtg tgcattggga ttccttccag 120
 acgtgagag ctgagaagtc gtcccccttt cataaccttg ctgagactca ggagggtgag 180
 gcagaagaat cgcttgaacc caggaggcag aggttgagtg gaaccgagat ggcgccaaact 240
 gcactccagc ctggtgacag agcgagactc cgtctcaaaa aaaaaaanca aacaaaaa 298

<210> 831
 <211> 292
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1) ... (292)
 <223> n = A,T,C or G

<400> 831
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 tctgtttgta ccattttact gctccatacc aagagtccaa gtggcacaaa ttctgggtcc 120
 gttgtccatc acaaacaaga cattgattta tatattggga ctgcagcttt tcacctctgg 180
 ttctacatc tggattgtag ccataagtgg acttatgtcc gntctntnctn acgacnaact 240
 gatgaccaag tntgtcatna tgngaataaa taactactan agactaaact at 292

<210> 832
 <211> 196
 <212> DNA
 <213> Homo sapiens

<400> 832
 aattccggtg ctgtcgggtt atatccagga tccgtgcctt tccaccgggt gtggtggggc 60
 cagaggcagc caaggagtgt gctcttctgt ccagatgagc cttggagccc agaattggaaa 120
 acaaatacag catcgccctt aagaggaact gaaagcagcc acccaactct tccccagggc 180
 cctcattctg aataga 196

<210> 833
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 833
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 aatgatgaga cgcgtgtgaa tgcaacgatg gaagatgtga atgactggct gactgaactc 120
 tatggcgatc agcctccatt ttctgagccg aaattcccta cggagtgtt ctttctcacc 180
 ctgcatgctc accacctctc tattctgcct agttgccgtc gctatatccg cagactccgg 240
 gctatccggg agctcaatag aactgtagaa gatttgaaaa ataatgaaag ccaatggaaa 300

<210> 834
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 834
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 ggaaatcaag gtggcttttt cagagactgt gttggttcct ttcaaattt tgaaacactg 120
 acagaaggag acattttaga ttctctcaaa gtttacactg cccagtgttg gggggaggca 180
 tgcctagttt ctttgaaact ggctatgttt tccttaatac ctgatttgcc tttctctgta 240
 atccttaaaa taaaatttgt taaaagtgtt cttcattatg gaaacaatat atatgtggta 300

<210> 835
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 835
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 gagaacaaaa cccgacaagc ctggtgctgc tcttactgta tctgtggggg ggggaatggg 120
 gaagtcttga aaatttacag gtgtgtctca gactaaaggg tttcaaaaca ctgtgctgaa 180
 gcagtgcgtg ttgaggtaga aggcacagga gtgttcctgt ggttgggaga gatatactgt 240
 gtccagaatt tgaggcagga gatagagggt ttgctggttg gattgtggtg agactcctag 300

<210> 836
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 836
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 gcaaggggtg actgaggggt gtgggagggg atcacctggg ttccaggcca tccttgctga 120
 gcatctttga gcctgccttc cgggtgggagc agaaaaggcc agaccctgct gagttagagg 180
 ctgctgggat ccaactgttt cacacagcgg gaaggctgct gggaacaggt ggcagagaag 240
 tgccatgttt gcgttgagcc ttgcagctct tccagctggg gactggtgct tgctgaaacc 300

<210> 837
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 837
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 ttgccggcag cgagattttt ttccatttgt gtgtgatgat tggttcaggaa tattttggtg 120

actgtaatca	atgagagact	gaagacagat	caacatacat	cttaccatg	ctctttcaaa	180
gactgtgctg	agagagaact	tgtggcagtt	atatgtcctt	attgtgagaa	gaatttttgc	240
ctgagacacc	gtcatcagtc	agatcatgag	tgtgaaaaac	tggaaatccc	aaagcctcga	300

<210> 838

<211> 300

<212> DNA

<213> Homo sapiens

<400> 838

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gatgtggtca	ccgaagtccc	cacacgctgg	ctctccacac	ccctcctggt	ccagaaagca	120
tgtccgaaag	cagtccagga	gattattaag	gggtcgccat	gaatccactt	tggttttaaa	180
accattcccg	aatgtcctag	tggatttgtt	tgtgctgctt	aaagtgcggg	ctgcaggagc	240
cagagaagtg	acccccgcgg	gagcagcggc	aggtggatct	ccacggtggc	tcgctttggt	300

<210> 839

<211> 300

<212> DNA

<213> Homo sapiens

<400> 839

aattccggtg	ctgtcgctgc	gatactttct	gtagcagtga	ttctaaagtg	gcgtttgctg	60
tgtgcttgag	agtaacactg	cacgctgcag	gggctgttgc	agcagtcagt	cccaggaagc	120
cacagcgctt	gtaggatctg	ctaggaccct	gcagctgtgc	tgccgccacc	tctgctccag	180
agtgtcccag	ccaaccctcg	gaagatggga	ttgccagtca	gccctgcctc	accatgcctg	240
caggaggctg	tccagggagc	aggtctgtgt	gcccatcagc	aggttcccat	ggctgtcact	300

<210> 840

<211> 300

<212> DNA

<213> Homo sapiens

<400> 840

aattccggtg	ctgtcgacaca	cctcctgccc	cactgcccctg	cttggaactct	gactcccact	60
cactctggga	agcctcctcc	tacccaacat	ggacgatctc	ctcatgcctg	cttgggcact	120
ggcctccatt	ctcggggggc	ctaattgctta	gacatgctcc	tcaccctctg	cagctctgac	180
accctgtgtt	gggatgcctt	cacatgggta	ccccctcatt	ctgcctgtgc	ttcaacaccc	240
caggcccagc	tgtgctgtgc	gtgaataccc	ttccacccca	ctcaggttct	gacttcccac	300

<210> 841

<211> 300

<212> DNA

<213> Homo sapiens

<400> 841

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ttgtttcggg	aactcaacag	cacctattca	gagcaagatc	ctttgctgaa	gaatctatcc	120
caggaaatca	tagaattact	caaaaagctg	gttgggcttg	agagcttctc	attagccttt	180
gcctctgtac	agaaacaggc	taatgagaaa	agggcactcc	ggaaaaagag	gaaggccctg	240
gagtttgtaa	ctaactctga	tattgctgcc	aagaaaaaaa	tgaagaaaca	caaaaataaa	300

<210> 842

<211> 300

<212> DNA

<213> Homo sapiens

<400> 842

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cctacctcag	gcccccttcag	gcccataccta	tgccatctac	ctgcagccca	ctcaagccca	120
ccaaagtgtg	acgccacccc	aaggcctgag	cccaacgggtg	tgaccacccc	actcttctaa	180
agctactggc	tcaaaagact	ccacagatgc	caccactgag	aaggcagcca	atgatacctc	240
aaaggccagt	gcctctacca	ggcctggaag	cttgctgcca	gcaccagaga	ggcaaggggc	300

<210> 843

<211> 300

<212> DNA

<213> Homo sapiens

<400> 843

aattccggtg	ctgtcggctc	agccagtgga	aatccccgcca	agcagaggca	gccagtatgg	60
ggggccaggc	tgcccttcgt	acggggagga	cgaagcgggg	cgaagagagg	ccacacacat	120
gctcggacat	caagagtatt	cttcttcacc	gctatttcag	gtgccaagga	cttcaggcag	180
ggagccctca	gctccttcg	ggaacctccc	ccaccgggga	ctgcaggggc	ctgggctggg	240
ttacccacc	agctccacgg	aagacctcca	gcctggccac	tcctcggcct	ctctcatcaa	300

<210> 844

<211> 300

<212> DNA

<213> Homo sapiens

<400> 844

aattccggtg	ctgtcggctc	tggccggcgc	tgacgcagcc	atggcggagg	cggctttgga	60
agccgtgcgg	agcaggttac	gagaattccc	ggccgctgca	aggggtggga	gctgccctgg	120
ggtcaggtgt	gagcagtgt	tactggcatc	tgggcatggg	ctgagtgtcc	attcctctag	180
agccacagt	ggctccacag	aggtgagtgt	ggccgtgacc	ccagatgggt	acgcggatgc	240
cgtgagaggg	gatcgcttca	tgatgccagc	tgagcgccgc	ctgcccctga	gcttcgtgct	300

<210> 845

<211> 300

<212> DNA

<213> Homo sapiens

<400> 845

aattccggtg	ctgtcgatca	gtattgtggc	ccagggtggac	cagaccggct	ccaagtccag	60
taacctcctg	gatctgaaaa	accccttctt	tagatacacg	ggcacaacgc	cctcaccccc	120
acccggctcc	cactacacat	ctccctcgga	aaacatgtgg	aacacgggca	gcacctacaa	180
cctcagcagc	gggatggccg	tggcagggat	gccgaccgcc	tatgacttga	gcagtgttat	240
tgcaagtggc	ccagcgtggg	ccacaacaac	ctgattcctt	tagggtcctc	cggcgcccag	300

<210> 846

<211> 300

<212> DNA

<213> Homo sapiens

<400> 846

aattccggtg	ctgtcgggtg	cagctgccgc	caccgcccgt	tctgcaagg	ctcagggacg	60
ggctgcagcc	atgtcctatt	gccggcagga	agggaaaggat	cgaatcatat	ttgtaaccaa	120
agaagatcat	gaaactccaa	gcagtgcaga	attgggtggc	gatgacccca	acgatccata	180
cgaggagcat	ggattgatac	tgccaaatgg	aaacattaac	tggaaactgcc	catgccttgg	240
gggaatggcc	agcgttcctt	gtggagaaca	gtttaagtca	gccttttctt	gcttccacta	300

<210> 847

<211> 300
 <212> DNA
 <213> Homo sapiens

<400> 847
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 gggagagaat atttcaaag aacacgtgca ccccatcatc actggaggca aatttcagca 120
 tagatctgta ggatttttag aagaccgtgg gccattgcct tcatgccgtg gtaagtacca 180
 catctacaat tttggtaacc gaactgggtc tttagtaatg tggatttttt tcttttttaa 240
 aagagatgta gcagaataat tcttccagtg caacaaaatc aattttttgc taaacgactc 300

<210> 848
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 848
 aattccggtg ctgtcgga aa atatctaaat tttgcacagg agagcaatta gagaggctta 60
 aacaggaagg aagtcttcta attccttaaa agcattatct catatttgaa gagttcaagt 120
 ttgatgcaac ataaactgat aaagtgttgaa ataaaaagag acagggttgg aggaaagacc 180
 attcatatcc tatccccaaa ctggcttaag tccactccca ctgccccag ctaccacctt 240
 tttactttat tctacctgct atttctttgg ccaccggaat aataagcctg atgtaaattc 300

<210> 849
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 849
 gaaagaactc cctggctgta gctcctatgt aggttttaggt tgagactctg gattccacaa 60
 tttttaaaagg ttaccatctg aggtttctga tcatagtcta cttttgaagc agctgctgct 120
 atttctttat tccattgaac accctggaat tgacataatt ttatctatca gcatttctcc 180
 ccttttaggt tatttaataa ttaaccgggt ctccagggca gttttcatat gaccatgtgt 240
 atattcactg ctcacgaata agtttaatgt tagattacca aatttaatat agttacagaa 300

<210> 850
 <211> 300
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(300)
 <223> n = A,T,C or G

<400> 850
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 atcactccag gcagacagaa gacctaacaa gcaactgagat gacagaaaag agaattagaa 120
 aagttctaca gagacacaga ttatcaggaa attgccacat ggttacattt caacttgaat 180
 ttcagattct ggaaattcaa aataaggaga gattatcttc tgctgttact gacctcaaca 240
 taataatgga gcccacagaa tgctcagaat taagtgaatt tgtgtctaga gcagaagaga 300

<210> 851
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 851

aattccggtg	ctgtcgcagg	tgactgccaa	cagccagccc	aatgtcgaat	ccagaaatgc	60
accacggact	tcgtgtccct	gacttctcac	ctgaactctg	ccgttgacgg	ctttgactct	120
gagttttgca	aggccttgcg	tgccatgct	ggctgcaccc	agcgaacttc	aaaagcctgc	180
cgtggcaacc	tggtatacca	ttctgccgtg	ttgggtatca	gtgacctcat	gagccagagg	240
aattgttcca	aggatggacc	cacatcctct	accaaccccc	aagtgaccca	tgatccttgc	300

<210> 852

<211> 300

<212> DNA

<213> Homo sapiens

<400> 852

aattccgatg	ctgacgagtt	tgcatctaaa	taatgcctat	gagttgtgtg	aagctcttgg	60
ctttttttcc	aacgttactt	tggaactaat	gaggggtggat	gttcattgta	gtttatttat	120
ttggttcttt	acatggagga	atttaaaaaa	tcaaattttt	ctcttcacct	ttatgacttg	180
acatttcctt	gatctgttgg	aggctaaaag	taggtataaa	tgatattgaa	tgttgggtat	240
agtatactc	tgccatagtc	cttactgcat	gaagagaacg	agaagtcaca	caagttcacc	300

<210> 853

<211> 300

<212> DNA

<213> Homo sapiens

<400> 853

aattccggtg	ctgtcgaact	tgtccaagtt	ccagatgacc	aacaaagaca	gctatagaca	60
ctctaactct	gtgccaatta	cccaaggcct	tcagggccct	gggacctatt	ccatgatagt	120
ggtaccctaa	ctgaacccat	ttcagccact	cagattgata	gggtggaaaa	gacagggcag	180
gtggtagcag	ctgtgaagaa	aagaggaaaag	cagaagggtg	gcctataatc	tacaggcatg	240
tagagaggac	tacataggcc	tctgttcttt	gcctcaggag	cccccttcct	gtcccttgga	300

<210> 854

<211> 268

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(268)

<223> n = A,T,C or G

<400> 854

aattccggtg	ctgtcgggtg	cagctgccgc	caccgccgct	tctgcaaggt	ctcagggacg	60
ggctgcagcc	atgtcctatt	gccggcagga	agggaaggat	cgaatcatat	ttgtaaccaa	120
agaagatcat	gaaactccaa	gcagngcaga	atnggnggnt	gangacccca	angatncata	180
cnanganac	gnctagtnan	agtcnanagg	nnannnnancn	agnaacannc	nngccangng	240
naananannn	cgnnnnnnnn	nnnaanag				268

<210> 855

<211> 300

<212> DNA

<213> Homo sapiens

<400> 855

aattccggtg	ctgtcgaaac	atctggccaa	cctccaaagt	attttcattt	atcacattct	60
gcctctgtgt	ccaactgtcc	ttgactgttc	gtggtaatgg	gaaactcact	actctggagg	120

tagctattcc	attgttggaa	agcgctgaga	tttaaaagct	cctcatgttg	aattgaaatc	180
ccatttcctg	aggtttgtgc	aaccagtgtg	tgatatttct	agaggctgcc	taaaagagtc	240
cagtttagac	ctgttacctt	agaaggcccc	ctccaaagtt	agttgatctg	ttcagaaaaag	300

<210> 856

<211> 300

<212> DNA

<213> Homo sapiens

<400> 856

aattccgttg	ctgtcgctgc	acaggacact	tatgccaccc	tcttgccaga	tgcctttgaa	60
gaaagagtca	gactgggtcca	ccctccccca	gccctggggg	ctccttgagc	ctctctccag	120
ccttggcagg	aggaggaaaa	gcagcacctc	cctcagacag	ctggaaaggc	cctcttcctt	180
cccagctcag	tgggtccggc	caagggtcac	cagacgggta	tttgtcccca	cctccctacc	240
aacccaaga	acacactcca	cacccctctt	cgctgctgcg	gtgtgaagct	tcagcctaac	300

<210> 857

<211> 300

<212> DNA

<213> Homo sapiens

<400> 857

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agttgcgttc	actcatcagc	atggcccggg	ggctgggggg	catcgggcat	accccagcag	120
gccctatga	cggtgtgtga	ccaggccagc	ccagtgcact	ttctcctgct	gcacttggag	180
ggaggggaca	tacacacagt	ctcccatctc	tcctcccttc	cccctggggg	ggcccaccgc	240
atgggtacag	gggggttccag	gaatccaaat	ccagcatggc	ttggaggagc	tctgttgggtg	300

<210> 858

<211> 300

<212> DNA

<213> Homo sapiens

<400> 858

aattccgttg	ctgtcgctca	cgccccctaa	ctcgcagggc	tttgcccccc	actacgacga	60
catcgaggcc	ttcgtgctgc	agctggaagg	taggaaactc	tggcgtgtat	accgacccccg	120
agccccaacc	gaggaactgg	ctctgacatc	cagccccaac	ttcagtcagg	acgacctcgg	180
tgagccggtg	ctgcagaccg	tgctggaacc	tggagatttg	ctgtattttc	ctcgggggctt	240
cattcaccaa	gctgaatgcc	aggatggagt	ccactctctg	cacctcacct	tgtccacgta	300

<210> 859

<211> 276

<212> DNA

<213> Homo sapiens

<400> 859

aattccgttg	ctgtcgctct	taattttctt	ctgggtagta	aaaagaacat	gtttcattct	60
ttgcataaat	acttgactct	aagcattgac	ctttgaaaac	gcttgattta	acaattttta	120
ttaagaaagt	gcactctata	taacatcttc	ttgcattacg	atagctcatt	agccaatata	180
catgcagcta	tgtaagccac	aacagcagac	gtcctatcct	tttgcttttg	tttttaaggg	240
atcaaaatat	ttcaagggat	accatgagga	aggggtg			276

<210> 860

<211> 300

<212> DNA

<213> Homo sapiens

<400> 860

aattccggtg	ctgtcgggtg	atggccagga	aagaagccag	cacaggggta	aagtaactcc	60
tggcattgcc	caccaggggg	ctggtgcacc	tgttgacctc	agggtcacag	ttgagtcatt	120
tgccagttga	cggagcaagt	ttgaccttgg	ttctgttgct	gaagcaaatt	tggaaactttt	180
ctgtctcagt	gtgatccact	aaccacaggg	atcatttgga	accttgaata	gctctgcttg	240
gacaatgggg	ttggggaata	gggttggtctt	tcctatgaaa	atgccatctg	tagaccttgt	300

<210> 861

<211> 300

<212> DNA

<213> Homo sapiens

<400> 861

aattccggtg	ctgtcggggg	tgcccaccca	tgggagagct	gctctgtatt	ttcagcagaa	60
taggggtgtg	tagtgtcaga	gcctttataa	gaaacaggcc	agtaacccag	cccccttcca	120
tggaaattcat	ctcattcggt	gtgacacatg	atttcctccc	aaccagttt	ggctttctaa	180
atttagtcct	ccataatggg	aagtagagat	ctttagttaa	tggattagca	agtttttgca	240
gttctgctat	ggtggtaaag	ggggagtagg	agaataacat	taagtggcaa	tagtgcattt	300

<210> 862

<211> 296

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(296)

<223> n = A,T,C or G

<400> 862

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gtttagaagg	tgcagagacc	agggcaactt	cagggatcca	ggtagcagga	aggaatcggt	120
agcctctaaa	cctagtctct	aagagctttc	cattacatga	gctgtctcaa	agccctccaa	180
taaattctca	gtgtaagctt	caaaaaaaaa	aaaaaaaaaa	attncnnggg	ncngtttttn	240
ncnaaaancc	aanctnnana	aaanccttng	agnatttggn	nnaaccenna	cttaaa	296

<210> 863

<211> 300

<212> DNA

<213> Homo sapiens

<400> 863

aattccggtg	ctgtcgggtg	agaagtgtctg	gcttattaga	gactctgggt	gaagggtcatg	60
tgcgaactca	ggaaaactgt	aatcacgggt	cgtgtttttc	agccccgtgc	ttcaggaagg	120
cttaactcta	agggaggggt	gttttgtgtc	atctccagag	ctctcatttc	tcctgtgtgg	180
cttggtgccg	aagctcattc	gtccccctgc	tgtctgttcg	gcccttgccc	tacctccct	240
ttctctttcc	acgcttttgt	gtaaagtagc	cctctttcaa	gtgtctcttc	tgcccttgaa	300

<210> 864

<211> 300

<212> DNA

<213> Homo sapiens

<400> 864

aatccggtgc	tgtcgaatct	gtaaaccttt	atgacattag	gaactaagaa	acttagtccc	60
ttcggttagg	ggataatgaa	atgtatttag	tgtttgtgaa	acatagatgg	tatgtatttg	120

gacaattctg	taactttgct	ttttttatct	ttatttttcc	atagcttatt	ggggaacagg	180
tgggtgttgg	ttacatgatt	aagttcttta	gtgggtgattt	gtgggatttt	ggaggaccca	240
tcaccaagc	agtgtacact	gcaccctatt	tgtaatcttt	tatccctcgc	ccccctcca	300

<210> 865

<211> 286

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(286)

<223> n = A,T,C or G

<400> 865

aattccggtg	ctgtcgaata	aagtcctatct	ctcaatactt	atacttttcta	aattcatctc	60
agaatattag	cagccatatt	ccacagttcc	tataattttt	actggggggg	atttgtgata	120
ggaaagtcct	tgggaaacat	ttccaatctt	tcaaaatatt	atcgcggtatc	ttaagaagca	180
tcggaacttg	natgttgnaa	nggtgcatgn	tanancctnc	ncctctnct	acgacccgcc	240
ntntnnnecn	nccnccann	tngacgngcc	cccnncccc	ccctc		286

<210> 866

<211> 292

<212> DNA

<213> Homo sapiens

<400> 866

aattccggtg	ctgtcgggtt	ttgctaactct	ggattcctgt	ggaagggcct	cctctctctg	60
ctcgtgtttt	atagcttggc	aactctagtg	ctagtctcgc	aatattcgaa	tttgagtagc	120
cagaagaatt	tgtgtccagg	gtggccttgc	ccttgacttt	gaaatgaact	cacccgagac	180
ttcagcttga	tgcctccttt	ggctaattgct	gggttctggg	ccttggcgcg	cgctgcctg	240
tccatcacaa	ggggccatgc	tctccaatca	ggacagaagt	tttaacattt	ta	292

<210> 867

<211> 300

<212> DNA

<213> Homo sapiens

<400> 867

aattccggtg	ctgtcggggc	agcccggtt	aaaggcacac	tactcaagg	ccggctctca	60
tttagtgga	ccgcagggtt	aatgctgtc	ccaggccttg	ggtcccagtg	accaggaaag	120
ttttgaaaat	gagaacatgt	gttgacccta	ggactaggac	aacagcgccc	ttgattttgc	180
ggaagtcttc	cctggaagtt	gggcgtgctt	gatattgaga	cgctgcactt	tgtgtttctt	240
gacggctttg	ctgcaaattc	tcacacacct	tgcgcttgag	taaaaccca	aggattccag	300

<210> 868

<211> 300

<212> DNA

<213> Homo sapiens

<400> 868

aattccggtg	ctgtcgggtt	gtgtcagctg	ttcgcgtgcg	cctgccccgg	ctgtagcacc	60
ggcgggtgcg	gcagctggaa	ggtgttccgc	tccagtgcc	tgcaggtgcc	agagagagag	120
gcgcaggacg	ctcagaaaca	gggaaacagc	cttgacgtg	aggactggtg	tgaaggtgct	180
gatgactggg	gaagtgtatc	tgaggagggg	ccttcaccac	agtttacctt	ggattttggg	240
aatgatgcc	gcagtgccaa	agacgttagc	tggactgctc	ggctccaaga	cctccgctg	300

<210> 869
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 869
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 ggaaaagctg tttttctggc aagagataaa catcacctct ctgacatctg ccatctgatc 180
 cgccacgatg tgccctacct gttccagaag tacgtgaagg agtcccatgg aaaggacatc 240
 cgggtgggtg tggtaggggg ccaggtcata ggctctatgc ttcgctgctc cactgatgga 300

<210> 870
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 870
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 gctgatgctg ttctgtgact gttcgcgga cctcatcaca atccttgatg acattgaagt 180
 ttatgaagaa cagatttcat tcaaaactgga agagctgggc actatctcct ctttcctgaa 240
 ttcttttgtg ttaaatga tctgggatgg aattgtagag aacgccaagg gtgagacctt 300

<210> 871
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 871
 aattccgttg ctgtcgtgtg catttgagac ctacattctg gaaccatttt ttattcaatg 60
 tgaaatccct gaacttgca tcaagctcat tacagctgtg ggcataactg tagtgatggt 120
 cctaaatagc atgagtgtca gctggagcgc ccggatccag attttcttaa ctttttgcaa 180
 gctcacagca attctgataa ttatagtccc tggagttagt cagctaatta aagggtcaaac 240
 gcagaacttt aaagacgcct ttccaggaag agattcaagt attacgcggt tgccactggc 300

<210> 872
 <211> 297
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)... (297)
 <223> n = A,T,C or G

<400> 872
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 acccagaagg cggagtgtgc agtgagcggg gatcacacca ctgcactcca ccctaggcaa 120
 cagagcgaga ctgtctcaaa aaaaaaaaaan ttaccntnnn ttttttaggn cntttcnaaa 180
 taaaangggg attttttttt cntgtntaaa aatntaanct anttgtnn cn tannaaaaat 240
 ngnatngggg gggtnagnan atgngnnctt gnaacagntt ccnnggntcc tttatcc 297

<210> 873
 <211> 300
 <212> DNA

<213> Homo sapiens

<400> 873

aattccggtg	ctgtcgggaa	catagactca	atccttccta	aaagctcaag	gctttctggc	60
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gtgattccgg	tggtttcttt	ataggcccta	aatcagtaca	ggaagaaata	ggacaagaac	180
cagagaagat	taactttctg	aaactttaca	aacagcctaa	ttccaagta	gagaaaagta	240
tattttaaag	aatgaatact	gggggaggaa	atgaaggaag	gtgaattaag	ccttcacagt	300

<210> 874

<211> 300

<212> DNA

<213> Homo sapiens

<400> 874

aattccggtg	ctgtcgggtg	taatcaagct	ttccacagt	tcttgaaaag	tactatgttt	60
caaatttcag	gaacaccagc	gttagctgta	aaagttgcag	caatttattg	gctagtcata	120
gaaaattttt	gaacttttaa	ctgtatttta	attgatgttt	attaaaaaca	ctttgctatc	180
agatatttgg	cataaatctg	tactcttcat	tatagttttg	gggggagaga	agattcagtc	240
agaaaactta	ttcaaagtac	ctaagtatta	taaaggagtc	aaaaaggtac	aaagagaaaa	300

<210> 875

<211> 300

<212> DNA

<213> Homo sapiens

<400> 875

aattccggtg	ctgtcgcaac	tgccttttta	agaaatttca	cttcttgcct	aattttcttt	60
cccttctgct	atagaaatat	tatgggctgg	atacaaaatg	gggtgacatc	gagcagtggg	120
tggtaggcct	tgaatataat	tttgttttta	ctcttccctc	cccacttgaa	tacagtgttg	180
agacttaaat	ggttttataat	gtaattctta	cgcagttaa	ctatgtagat	agattcctat	240
tgcaccataa	tttaatactg	agagattttc	ttccggggat	ttctgcatct	ggctctctgtt	300

<210> 876

<211> 300

<212> DNA

<213> Homo sapiens

<400> 876

aattccggtg	ctgtcgggtg	gatggctccc	cctatgaaag	ttgtccagtg	agcaggggtca	60
agggttaggt	ttggggtacg	gacatgagtg	caggagcctt	actctcctgt	gtgttgtcag	120
ggatggataa	aggggatgaa	gttggagggg	tttagtgaat	ggttgggaca	gcaaatttca	180
gagaagagca	tttggaata	atcttctcaa	atatatattt	ttaaaatcca	tatttgattt	240
ttttccctca	gggattccca	agcatagtag	agctaaaatg	aattaatttg	ggtaaaagta	300

<210> 877

<211> 279

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (279)

<223> n = A,T,C or G

<400> 877

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gaggttatag gctctcctta tcaaacgctc tttggcagct gccataacca ttccaagtct      120
agtcctagaa tagaaatgac gcggtttcag gagctgacag atggaacttt aagccttctt      180
tcttgccaca tctgaagttc ttttttaaan nnataganaa ccatgacgat aaacactctt      240
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<210> 878

<211> 300

<212> DNA

<213> Homo sapiens

<400> 878

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aattccgttg ctgtcgggtct tctcaacctc ctattgttgt tataaaatct ctgtgaaagg      60
cagcagcctc ctctgccttc catattaacc agcactttcc ctgtccagaa gttattccat      120
cttacggata ttgagaagat aaatggaagt gattagaatg tactttccaa acataaaaca      180
ttgtactgta ggagtttgtc aaaggggatt aatactacca catatctgta gaagaacttt      240
atgaagaccc tgtgtatctc tcaaccttaa tgactaagat tgtagatatg atagaaatct      300

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<210> 879

<211> 274

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(274)

<223> n = A,T,C or G

<400> 879

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aattccgttg ctgtcggggc aacaaggctt ccagctggat gtgtgtgtag catgtacctt      60
attatttttg ttactgacgg ttaacagtgg tgtgacatcc agagagcagc tgggctgctc      120
ccgccccagc ccggcccagg gtgaaggaag aggcacgtgc tcctcagagc agccggaggg      180
aggggggagg tgtgggaggg tctgnccggn atgttggact tcncgggtcaa tgtcnttttg      240
tnntnccttg aattngcttg nannggtact tctt                                274

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<210> 880

<211> 300

<212> DNA

<213> Homo sapiens

<400> 880

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aattccgttg ctgtcgcaaa ctttcttttg tttcaccagt gggaaggaaa aaataaatgt      60
gaaccaaagc aaactcccta catttagctc atgggggtga ttccctcgct tcttgcatgt      120
gtcttgccct tttgtttgca ggccaggaga gctattggtg ataccacact ctgggctagg      180
atgtgatggg aggtgggatg taggggcccc gggagaaaagg gttgcagcca gcggtcaggc      240
tgggagcaga gacctccagg cgggtccctg gtgttctggg cagtcacgcc caactgccaa      300

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<210> 881

<211> 262

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(262)

<223> n = A,T,C or G

<400> 881
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acatttgcgat ttggaataat tgatgtgact gaagtgcata tcttcataat aatcatgcat 120
ttgctggcnn cgattnnagg ncnantttnc tnnccanac natttcagtn nttgntantn 180
tntnnnangn attnnntgna tntnanttta gtgnntaant tnnnnnttttn tttgcnnttt 240
ttaatntnnn tntnttttcc tt 262

<210> 882

<211> 300

<212> DNA

<213> Homo sapiens

<400> 882
cttctgtaga tactgaagaa acaattgaac cttatacaac tgaaaagatg agtcgagttc 60
ctggaggata tttggccttg acagagtgtt ttgaaattat gacagtagat ttcaacaacc 120
ttcaggtgtt tactacaatc tggaggcaag atctttcctc agtatgtgtt gatgtttggg 180
ttgcttgggg aatcacagac actcctagag gagaatgctg ttcaaggaac agaacgtact 240
cttgatttaa atatagcacc ttttattaac cagtttcagg tacctatacc gtgtattttt 300

<210> 883

<211> 300

<212> DNA

<213> Homo sapiens

<400> 883
aattccggtg ctgtcggttt atggattcgt gggctgcttc cacctgctag gaggggtggtg 60
tactctaact cagggacaga agccccctgtc tgtgctcagg actcttgacg acctctttac 120
ctggctgttc atcttccata atcaactggg agacgttaca tccaagagga aataatccag 180
gcaaggaagc acaagctgat caagatgtgt agttctgtgg ctgccaaagt gtggtttttg 240
acagatcgct gcacacagga agactatcct caaaaagaga ttttacgagc attgaaggcc 300

<210> 884

<211> 300

<212> DNA

<213> Homo sapiens

<400> 884
aattccggtg ctgtcgataa aataatgcat gtaaggccct cagcatagtg cctggcacag 60
aattactgct caaatgttag ctgtcgattt aatattgtca cttttgcaca ctgatgtaca 120
tttctgttg accaggctca ttctttaagc attctccatg cttaaaccag ttccataatc 180
cctaggcctg tactccaggg attgagactg aaaggatcat ttatgccatg tttctctaaa 240
agcatcattg ctggaagact tttgataagt ctgatgtgtc tcaagctatt ctcaagcctt 300

<210> 885

<211> 300

<212> DNA

<213> Homo sapiens

<400> 885
aattccggtg ctgtcgagca gttctttgaa actattctca agttttgaac agaaagccat 60
gctgttaaag cgccaggctt ttgctgtctt cagtggagaa cttgatcaat accaccttta 120
ccttccactg atacaagaac gcctgacaga caatctcaga gttggacaga catccatagt 180
tgctgctcag atgtttcttt ttttcagagt tttgctgcta agaatatctc ctcaacattt 240
gacttcattg tggccaataa tggctctctga attgattcag acattcacac agcttgaaga 300

<210> 886

<211> 300

<212> DNA

<213> Homo sapiens

<400> 886

aattccgttg	ctgtcgggag	ctcctccggc	tctcccagaa	acagagcacc	gtgcagaact	60
tccacagctg	atcggcctcg	cctcgcagat	ttgccaagta	tccgcttcct	gtggaagcaa	120
gaccaaaagg	aaatcaactg	agtgggtgtt	tggaaagagga	aggagcaact	ctcgggcagc	180
ctgcccgaagg	gagggagcaa	gttgcaattt	agaagatgcc	atacgtcgtg	tgacagctca	240
tgagcctttc	actgggctgg	caattgtctg	aacacttggg	ttcagttgaa	atatatgtat	300

<210> 887

<211> 300

<212> DNA

<213> Homo sapiens

<400> 887

aattccgttg	ctgtcgtttt	ctttaaggat	tccccgttac	tactgggtgat	ggagatgtat	60
gaactgtgta	tgttcttcag	gaattataaa	gaagctgaag	ctaaacttct	ggagtttcag	120
aagagccttg	aaacgcttaa	cacagcagcc	acaaagggtcc	accctgtcat	ccctgccatg	180
tggctggagg	atcaggtgtg	tttccctttt	aagcttatgc	tacagcagtg	taagaccag	240
tatgagctgg	ggaagctttt	acagctcttt	gttgaaagag	agcatctctt	ctctgatggg	300

<210> 888

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(300)

<223> n = A,T,C or G

<400> 888

aattccgttg	ctgtcggaaa	attgggactg	agctagagaa	agaaggatct	taaaaccttg	60
ctagagaaag	agacctgatt	ccatcttcaa	gacatttgaa	accaaagaca	tttgaactgg	120
aactaaaagg	ttcaactcag	ataaaactcct	agtttagattg	aagagatata	ttcttcactc	180
tactcttggc	aggaaacaaa	gcactttctc	tgggagaacc	tatcttcttn	tttantggtn	240
cttttatntt	ccatggtnnta	nntanncnaa	ttttntttga	nactntatgt	tttgaatttt	300

<210> 889

<211> 300

<212> DNA

<213> Homo sapiens

<400> 889

aattccgttg	ctgtcggggc	attgctgggtg	gccccctagc	ccctgggtcc	cggggccagca	60
tctcccaggg	gccaccaacg	gcttctcgcg	caggctgtgc	cctctctgct	gagtcaagcc	120
ggaccttgct	ggcgtgtgtg	ctgtgggtgc	tgaaaaaacac	cgagccggcg	ctcctgcagc	180
gctggggcac	tgacctgaca	ctccccagc	tgggacgtct	gttggacttg	ctgtaccttt	240
gcctggctgc	ctttgagtac	aaggggaaaa	aggcctttga	acgcatcaac	agcctcacat	300

<210> 890

<211> 300

<212> DNA

<213> Homo sapiens

<400> 890

aattccgttg	ctgtcggcag	ggtgtcctag	gctctgagtc	tacagcaggg	aaacaaggag	60
cctgtcttca	tggagctcac	aggctcaaag	gatgcagcca	catcattgga	cctttcagta	120
ggttccctgt	gctgttaaag	ctcccgtgtg	tgcacgtgat	tcaggctcca	acaattcctg	180
gccaagataa	cagcacagag	gccctggacc	acctctgggt	gttctgtaca	gtgggcccctt	240
gggggcctgg	ctttcaccca	ctgggggtgca	atataaaccc	tcttcagatg	ccagaaccaa	300

<210> 891

<211> 259

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (259)

<223> n = A,T,C or G

<400> 891

attccggttg	tgtcgcctt	ccctcctcct	caggggtgggg	tgaacaaggc	tectatccca	60
ccccaccca	aaaagagaaa	aatgaaaaac	tcatagtttg	gagccaggag	gcaggggtgc	120
ctacagggct	gcacagccct	gaggggtcag	tgctgggatc	tggttggttg	gtttgtcttt	180
ttgtcttttt	tttttttttn	ncncantent	nanngaaatt	ngtttttaanc	cncagngtn	240
gncnttaaac	caaagggca					259

<210> 892

<211> 287

<212> DNA

<213> Homo sapiens

<400> 892

aattccgttg	ctgtcgcgca	gaccatggca	gccgcccagc	gttcgctctt	cgacaacccc	60
aggacgttct	ccagacgtcc	cccagccag	gcgagtcggc	aagcaaaggc	tacgaaaaga	120
aaataccaag	cgtccagtga	ggctccccca	gcgaaacgga	ggaacgaaac	ttcattttctc	180
ccagccaaga	aaactagtgt	taaagaaact	cagaggactt	ttaaggggaa	cgcacaaaaa	240
atgtttttctc	caaagaagca	ttcggttagc	acaagtgata	gaaacca		287

<210> 893

<211> 300

<212> DNA

<213> Homo sapiens

<400> 893

aattccgttg	ctgtcgggtgc	catccgtgct	caggtcccag	tgccccaggc	tgaccacact	60
ctgggtcagt	agtctcctgt	gcctgagtga	gggatatcgg	gacctggggg	ccctgccccg	120
agcacctccc	accactgct	agtgtctggg	ctttgtgagt	gttccaactt	catagccgag	180
agttggagga	caaggctggg	gcagggccga	ggaacggatt	gagtccctgc	taagcctcgg	240
gacatctaaa	cagctctggc	tctgccagac	ctcaggtgtg	accctgagcc	attttccttc	300

<210> 894

<211> 300

<212> DNA

<213> Homo sapiens

<400> 894

aattccgttg	ctgtcggcta	ctttaaaaag	tcgttcattt	ttgtttctcag	atattttctc	60
tccagtatac	ctatcactgt	tgaatgttcc	ccccaaactc	ccagtagttt	ggtttttagc	120

catttcatac	caatttatac	ttgtgctatg	ataacttttc	taaagtctaa	aacctaaaca	180
aatagctggg	ggtgatatta	ctttatgttc	ctgaggtgta	gaaagctctt	cagaatagct	240
tctgctcttt	gtgagctcca	tatggcagtc	aaaattaatg	aaattaaaaa	acaccatgcc	300

<210> 895

<211> 275

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (275)

<223> n = A,T,C or G

<400> 895

aattccgttg	ctgtcgggtca	ccagtcctct	tccttcactt	cttggtgtaa	ttgcagccat	60
tttcattgga	ttctttctag	ggaaattcat	cttgtagagt	gaagcatgca	gagtgtctgtt	120
tctttttttt	ttttctntn	gnccaaaaaa	aaatnngtta	nccanccntt	nnntgggaag	180
aaggncccn	gggnccatt	tttngggggg	ancnggggnc	aaaaggcttg	gcnttaaagg	240
ancnttaang	gtnaaaaanc	ccattaaaac	caaac			275

<210> 896

<211> 300

<212> DNA

<213> Homo sapiens

<400> 896

aattccgttg	ctgtcgaaag	acctctagac	tgtgagctca	gttatggaga	acaaaaacag	60
cttcattagt	agtagaacac	cgaggataaa	cactggggcc	atgggtcctt	tctgaggcag	120
cgccacagaa	gatctttgtg	gtccttccgt	agttctgtaa	gtctgtctcc	taagtatggg	180
tagagaatat	gtagcctgtt	gtgtgtctcc	cactacttgt	aaacagagca	tcacattagg	240
ggcagggagg	aggtggaatg	atatttgagg	tgcttaaccc	tactcgagga	attaattatg	300

<210> 897

<211> 300

<212> DNA

<213> Homo sapiens

<400> 897

aattccgttg	ctgtcggcag	tagggggagg	tgtgaaagga	cttctgcac	agggcatagc	60
atatgtttct	gagatcactg	gaagaagcta	gcagtgccag	gagcctaaag	ccagctcact	120
gtttggtcgt	ccagtggagc	aggtacagct	cacagtccct	aagccaggga	aacctggctg	180
acttccacta	aagtcaagca	agcctggtcg	gcctcgatta	gccaaaggtg	ggactcttcc	240
tccaaagccc	acctcagccc	acctctgcca	gggcagagaa	gccaaaatgg	tcacattgca	300

<210> 898

<211> 177

<212> DNA

<213> Homo sapiens

<400> 898

aattccgttg	ctgtcgaaag	agattgccga	tgaagacccc	agcctcgtga	acttggataa	60
tggggacggt	gcgacgccac	tgatgctagc	agctgttacg	gggcatttgg	ctctgggtgca	120
gctgttgggt	gagaggcacg	cggatgttga	caagcaggac	agcgtgcatg	gctggac	177

<210> 899

<211> 300

<212> DNA

<213> Homo sapiens

<400> 899

cttaggactg	ggctctgggg	aggattagcg	cctagatgtc	tgattttgga	gctgcagcat	60
gccaggccgt	ggctgagagt	atgtgagcca	tgccttgccc	ttttctgagg	ctcaggggaag	120
tggatggagc	tagagagaca	acaggaaaga	cggtgctgaa	gaacatagtg	tctttcctct	180
attgtggacc	taaagaggtg	gggaagcaag	gacaagaggc	aaagagccac	actgcccttg	240
gcatcatcca	aagcattgtc	tggttgacac	caggtcctgg	ttttgtgtct	tttgtcaata	300

<210> 900

<211> 300

<212> DNA

<213> Homo sapiens

<400> 900

aattccgttg	ctgtcggctg	gcactgctgc	tgtcaagcac	aggctcctcg	ggctcccaaa	60
cagccctggc	ccaggttctg	caagaggttg	cgctttcctt	ctgagtaggc	tggaagtggg	120
ccctccagcc	cacagcccag	gggaagaagc	acacgtgcac	tttccaagcc	ccacggccca	180
aagtaggcca	ctgttaatgt	cacagacaga	aatcatggcc	aacactggaa	gggggctttc	240
cagtgagcgc	ccctagcaag	cctgatctcc	cttcgtgttg	actcttccgg	ccagagagcc	300

<210> 901

<211> 300

<212> DNA

<213> Homo sapiens

<400> 901

aattccgttg	ctgtcgggaa	tgtttatctt	atcctcctca	gtgatacatc	atgaagttgt	60
gtgctttgcc	taaaatgccc	agttacctga	aattgtataa	attcttgcca	aaagtgtttg	120
aacttaatac	aaacttccca	tctcttacct	cctagcactg	tgctcatctt	gaggggacat	180
agtcccaatt	ttgtatttta	tataatactg	ttagtgaata	tgtgtagact	tcatatgggt	240
gtgggtaaga	gaatactgca	ttcagataga	aaagatgcta	tatagctaag	ttgatccagg	300

<210> 902

<211> 300

<212> DNA

<213> Homo sapiens

<400> 902

aattccgttg	ctgtcggtaa	ctaagagata	tgccccgaaa	caaaaccgat	gggttaaaaa	60
ccgttttttg	agcagacctg	gtcccattgt	ccccctgtc	tatggcttag	aggtatctga	120
tgtctcgaag	tggaagagt	ctgttcttga	acctgtctct	gaaatcgtgc	aaagtttcat	180
ccagggccac	aagcctacag	ccactccaat	aaagatgcca	tacaatgaag	ctgagaacaa	240
gagaagttat	cacctgtgtg	acctctgtga	tcgaatcatc	attggggatc	gcgaatgggc	300

<210> 903

<211> 300

<212> DNA

<213> Homo sapiens

<400> 903

aattccgttg	ctgtcgattg	gaagcaaaac	taataatact	attagcaatg	acaccagccg	60
agcagttgca	gatccctctc	gtatagaatc	tgaaatgtgg	atgatgctgt	tataaacagc	120
aaagttagcc	atagcaacat	aggcactggg	aatactgtgg	gtgggtctaa	gggtaacact	180

gttccctgat cttactgtca tcattctgcaa tctaagtaat gcagataata atgggtgcccc 240
 ttggacttga cgccaatctc ttgggtctat tagaaccatg taggcagagc tattccaata 300

<210> 904
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 904
 aattccgttg ctgtcgaaat actcctctaa agtagataaa ctccttgagt aaagagaagt 60
 ttaccatagc aactttcagt agtacttcaa agaagatagc tgtataaatg tcatcaaact 120
 atactatgta gagaatctta agtgataacc agggtcacgg attccaaaca tgtcattata 180
 aattgtttta tatgggtgctc actgggtgcat ttttcctttt ggataaggga aaacattatt 240
 ccacttactg tttttgcttt aagcagcctg catatattgg ttagtttggt cagatgttgt 300

<210> 905
 <211> 296
 <212> DNA
 <213> Homo sapiens

<400> 905
 aattccgttg ctgtcggaga agttgagtgg ttgggacagt ggtcccccttc gtggtggaaa 60
 gaacactgcc tcagataatg tgtggctttc ctctggtcag agggccaaat gagtggacaa 120
 gtactgtgat ttctcaagcc cctatgcagt gttagatgcc actatgaaat acgagccatt 180
 gaaagagatc tcttcaactt attatttttt atcacgaacg tacatatcag ttattttatga 240
 gatttttttt tttaaatatt tcattttttt tcacgacttt ttctgccatt gaatta 296

<210> 906
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 906
 gtggtaatat ggggtgttca gtccccataa gatataatag ttcattgcagt ttatatatta 60
 aagtatccag tgggaactaaa tgtacaatat attcctaagt gcttgccctt ttcactgtgc 120
 tgaccagctg ttcaagccac ttcagtttga gtacaacata ccaacatgac actactcacc 180
 cacaaaggac agcattggga tcaggctttc agatgacctc taagattttt cccattttatt 240
 gtactcttgt taciaaagtac tttttaaacac atgcagtcaa tggtatataa aactattctg 300

<210> 907
 <211> 200
 <212> DNA
 <213> Homo sapiens

<400> 907
 aattccgttg ctgtcgcttt acttaaaaac tattaacagt ttttcatggt gcaactgggtgg 60
 taattttgaa cttggaatta ctgggtggga attccaggaa ccacagagta ttgatttttg 120
 ctgccaaaat gctcttgaag cagatgtccc tgtgctcccc tggttgcttc tggctgaagg 180
 ggggaggtgt gggagggtttt 200

<210> 908
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 908

aattccggtg	ctgtcgcttg	ttttccaca	cagtggagct	gtaactgcac	taagatggag	60
caaacagatt	tccaaagagg	aagattcagt	aaattatagt	gagaattgac	aagaagtttc	120
tgtttatcca	ttgaccagag	aagggaata	attcatcaag	tttagtttga	aggtctcagg	180
atgttgaaat	cagactttta	catcttaatc	cagtgagaat	gaaaaatgaa	ctacttatag	240
tgctgcccc	tgacaagtca	tttctttgct	tagggatgca	aatcgtatca	cacagtgggc	300

<210> 909

<211> 300

<212> DNA

<213> Homo sapiens

<400> 909

aattccggtg	ctgtcgaaatc	attaaggcat	gaaccttcca	ccaacctaac	tgctcagaggt	60
gcctctcccc	tctccaactc	cagattcctt	ccccacatac	ctggctattc	agtatcttct	120
agcatttgct	actcatttgt	ccaagaacaa	ggcctctac	tccctgcct	ttttggttgt	180
tggtgtgtt	tttgacagag	tcttgctctg	ttgcccaggc	tggaatgcag	tggcatgaac	240
acagctcact	gtagccccaa	ccttccaggc	tcaagtgatc	ctcctacctc	aacctcccta	300

<210> 910

<211> 300

<212> DNA

<213> Homo sapiens

<400> 910

aattccggtg	ctgtcgactt	tatcctttta	gattctcagt	ctctttgttg	cttgttgcaa	60
ataaatcatc	tagcaacatt	tacatttaat	taggaaatct	aacttgcttt	taaaagttac	120
ccacgttgca	tataaaaaatc	ttgctattcc	ttgtgtcttg	gctttacata	agcacttttg	180
ctcatgtgac	tttgcacttt	gcacttattt	taatcctctt	taaagggcta	caggcaaatt	240
ctactttgcc	ataatcacac	taaggcatgg	aagaacaact	tgcccagaat	ctagcaggtt	300

<210> 911

<211> 300

<212> DNA

<213> Homo sapiens

<400> 911

agaatacaag	ccaaaacatg	gcttcaaaaag	gtcagctgca	tcttcaactgg	attacagaat	60
tcttgctgac	tctcagaaga	aattgttgga	gagaatagtc	atacctactt	taaaagagaa	120
taaaatagcct	tctctaaatt	cctctgcttc	gtccttttcc	tggcggttgc	ctggaacctt	180
gttggtgtct	gtgacccaat	gactgttagg	gtcagctagc	ttcaattgcc	cctgcactgg	240
aagcaagggt	tgctagtaac	accaattaaa	atactaccag	tgtaagtaga	aggtgtgttt	300

<210> 912

<211> 300

<212> DNA

<213> Homo sapiens

<400> 912

aattccggtg	ctgtcgccat	ggttaggaag	aactgttcca	catacacctg	acattggagt	60
cagtttattg	atatgttttg	agattggcct	ttcaacagtt	ttcatatttg	aagaattaga	120
aatgaagtcc	gttcagattc	tccaaagaac	ctccagccac	tgggtggggga	cattcttaat	180
tcacattcct	atcagttggg	atctcctgtc	cctgaagaca	ctgatgaggc	ttgggaggag	240
aatcccacct	ttccctgcag	gggggttaggc	tgggcagggc	agggaggtga	gggcgctggt	300

<210> 913

<211> 300

<212> DNA

<213> Homo sapiens

<400> 913

aattccggtg	ctgtcgattc	aagcactggg	ccttgggtgt	ctgacctcta	cattctagtt	60
tatgcaatgt	cttttagagaa	ttttgtgcac	tggccactgt	gatggaacca	ttgggccagg	120
agtgccttga	gtttatcagt	agtgattctg	ccaaagttgg	tggtgtaaca	tgagtatgta	180
aaatgtcaaa	aaaattagca	gaggtctagg	tctgcatatc	agcagacagt	tttgtccgtg	240
tattttgtag	ccttgaagtt	ctcagtgaca	agttttttct	gatgccaagt	tctaattcca	300

<210> 914

<211> 300

<212> DNA

<213> Homo sapiens

<400> 914

aattccggtg	ctgtcgctgg	cctctgtgcg	gcgggctctc	tgccagctgc	agtgggacca	60
cgagcccagg	acaggtgtgc	ggcgtgggac	aggggtgctt	gtggagtcca	gtgagctggc	120
cttccacctt	cgcagcccgg	gggacctgac	cgctgaggag	aaggaccaga	tatgtgactt	180
cctctatggc	cgtgtgcagg	cccgggagcg	ccaggccctg	gcccgtctgc	gcagaacctt	240
ccaggccctt	cacagcgtag	ccttccccag	ctgcggggccc	tgccctggagc	agcaggatga	300

<210> 915

<211> 299

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(299)

<223> n = A,T,C or G

<400> 915

aattccggtg	ctgtcggctc	atcctgagaa	agatgagtta	atcctttttg	gaggtgaata	60
tttcaacggc	caaagaactt	ttttgtataa	cgagctctat	gtctacagta	cccgaaagga	120
cacctggacc	aaagttgaca	taccagttcc	acctccgagg	cgctgtgctc	accaggcggt	180
gataagtggc	ctcaaggtgg	cggacagctg	tggcnctttg	gaaggnggtt	ngcatctacc	240
aacngagagc	aaatntaatn	ctntgacggg	atgctncttc	cngttgcca	cttctctctg	299

<210> 916

<211> 299

<212> DNA

<213> Homo sapiens

<400> 916

aattccggtg	ctgtcggcag	tttcccgtta	ttttcttgct	tgctgttccc	ctacatttcc	60
tcctgatttc	ccaagactct	ctttgtggct	tttgagggtc	agccaaggag	caggcaagtg	120
agtgaacaat	cctcaggaaa	agaaggacca	ttttagctta	acacttcctt	ttttttttta	180
agaagaatat	aggtaaacag	gtaatgattc	ttgattggag	ataccatttg	actcttgatg	240
aaagttgtac	gaagatggaa	atgaggggatg	attccaggcg	ttttagggggg	aaggctgca	299

<210> 917

<211> 300

<212> DNA

<213> Homo sapiens

<400> 917

ccaaagtaac	acaaatgctg	ccttcaaaat	gaaaaccagt	tttctgttta	ttcttgctaa	60
atgtttatgt	aatataaatg	tagtatgggt	tctggttgat	gttttggtgaa	aattatgttc	120
tgtttcatcc	agcgcaagta	tttacttgat	ctgatttctt	cttgatacag	gttaaattggg	180
ccagggaaaa	ctatcaccat	aacattggct	caccatattg	cttacgggta	gcttctgctg	240
atgtcaatgg	gaagatcatc	gtctgggatg	tagcagcagg	agtagctcag	tgtgagatcc	300

<210> 918

<211> 300

<212> DNA

<213> Homo sapiens

<400> 918

aattccgttg	ctgtcggaaa	taacttcgaa	gtcctcttcc	tttacaatat	ttgaattcat	60
atgtgtacct	tctcaaaaata	gtgattcatt	tttcttagaa	ttacaggagg	gagctctttt	120
actaatgttg	ttttgtttgc	aactttgatg	gcttataata	ggaagtattc	tagttgtaaa	180
gaaaactctt	tagagacttt	tgactgggtca	gtatactgag	gtgtgagatt	tgattcatga	240
tgaagaaagc	ctatagattg	ccaaaaaatt	aattctccaa	accacctttc	actctcagaa	300

<210> 919

<211> 206

<212> DNA

<213> Homo sapiens

<400> 919

gagaagatga	ccgagagact	cttgtcagcc	aatgcaggga	cacactctgt	gttaccaaga	60
actggctgtc	tgcagatact	aaagaagagc	gggatctctg	gatgcaaaaa	ctcaatcaag	120
ttcttggtga	tattcgcttc	tggcaacctg	atgcttgcta	caaacctatt	ggaaagcctt	180
aaaccgggaa	atttccatgc	tatcta				206

<210> 920

<211> 300

<212> DNA

<213> Homo sapiens

<400> 920

aattccgttg	ctgtcggcgc	ggaggagaag	tggcgtcgag	tccggccggg	cagtagagga	60
aattgcggta	gtgacctctg	ggcctcgcca	tgaagagccg	ctttagcacc	attgacctcc	120
gcgcggtact	gcgggagctg	aatgctagct	tgctaggaat	gagagtaaac	aatgtttatg	180
atgtggataa	taagacatac	cttattcgct	ttcaaaaacc	ggactttaa	gctacacttt	240
tacttgaatc	tggcatatga	attcatacaa	cagaatttga	gtggcctaag	aatatgatgc	300

<210> 921

<211> 294

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (294)

<223> n = A, T, C or G

<400> 921

aattccgttg	ctgtcgctgt	gtttacacag	tagtttggat	gtacaattat	tattagtggc	60
tttctaaaaa	atgaaacagt	gttaagcgaa	ctgttggtcc	tagctttgta	ctccatgttg	120
tcaaagcatc	aacaatgaaa	attcgattag	gaaactttat	ttaaaatttt	aggcntnctn	180

tattcantcg	tanthannngc	canncttaac	ccattgnatg	aaaatctang	actgtnttga	240
agcaagcann	catnacatct	tntangnagg	naatantcnc	gcctttgcat	aaaa	294

<210> 922
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 922						
aattccgttg	ctgtcgccca	cacagtttgg	catgaaatgg	tcacttccgc	atctagagca	60
cacattatct	ttctgaagca	ccctgttgaa	tgagaggaat	acatacgtgc	catcataggt	120
tgaaaaagt	atctttttag	cataaattgg	tggtgtttg	agagcattac	ttgcacagtt	180
caacaatata	gagctggaaa	tgataaaaga	ggacattccc	tgctagtcaa	cgaatacata	240
gatctgtagc	tggaaattag	ttttaacttt	caagtagtca	agaaactttt	atgtccaata	300

<210> 923
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 923						
gggaaggagc	ctgaaggcta	cacagccctg	atgatcagtt	tctgagggga	cccctctggg	60
ggaacagctc	cctcctcttt	cccagagctg	actggaaggt	ctgtctcatt	ctacacactg	120
catttggtac	agaaaggagc	caagtgggga	aaataaagaa	catggaacag	gctgagagag	180
agggcagctc	cattcaaagg	acctaggtgt	atgccaaaaa	tgagaatgaa	gattgaccag	240
cgacttcttt	ggcagagacc	tgggcaggct	ggctgatgga	gagctggggc	ctgtgaatac	300

<210> 924
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 924						
caagcgcaga	cggaaccgag	atggtggcac	ctttattagt	gatgcagacg	acgtcgtgag	60
tgccatgatc	gtcaagatga	atgaagctgc	tgaggaagac	agacagttga	acaatcaaaa	120
aaagccagca	ctgaaaaaat	taactttact	gcctgctgta	gttatgcacc	ttaagaagca	180
ggaccttaaa	gaaacattca	ttgacagtgg	tgtgatgtct	gccatcaaag	aatggctctc	240
acctctacca	gataggagtt	tgccctgcact	caagatccgg	gaggagctgc	tgaagatcct	300

<210> 925
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 925						
aattccgttg	ctgtcggaag	gactacgtgc	tggcttgggc	attttacatg	acatagaagg	60
catccgctat	gaacccaaaat	gtcctcttgg	agtagacata	tcaaaagaag	ttggagaagc	120
ttccataaaa	gtaccacaat	taaaaatgga	gatatgattt	ctgctgttca	aaaaagtccc	180
taaagggtct	cactctctga	cctcagctgg	agtacagtag	ccagatcaca	actcactgca	240
accctgactt	cctgaactca	agaaatcctc	ctgccttagc	ctcttgaata	gccgggacta	300

<210> 926
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 926

aattccggtg	ctgtcgctg	aacctgaaaa	tcccaggtgg	gcgtcgggga	ctagtagggg	60
ggggaagcct	tggctccagc	cttcagggca	gtgggtgcct	ttgggaacca	agtttaggca	120
tggcccagaa	cacagtatcc	aagtcggctg	tgttgacctt	ttcatttcac	ttcatttcac	180
tatgttcttc	tatgtttatt	ttcacagagt	ctcatccaag	aaaaacaaat	gtttaccttg	240
ctaccttttt	cctcttccaa	ataaaaaatag	ctttattgtg	tcacatgggg	gaaacgtaga	300

<210> 927

<211> 300

<212> DNA

<213> Homo sapiens

<400> 927

ttttgcttgc	attaccccaa	agtttctttg	tcacttactt	cctgtgcaga	agttgtctac	60
ctatttctaga	ttatggaaat	aactcagatg	aggtagacaa	cttctgcaca	ggaagttgtc	120
tacctattct	agattatgga	aataactcag	atgagcttcg	tcagcaagaa	ggaagatgca	180
tttaacattt	tttcccaagg	ctaaactatg	tactataagt	tattcgaatt	agataaaaac	240
aggaaaaaaa	tatatcacta	tagaatgtct	agaaaagtgg	tttatgtttg	ttcaactgtt	300

<210> 928

<211> 300

<212> DNA

<213> Homo sapiens

<400> 928

aattccggtg	ctgtcggatc	agccagttta	gaggacctgt	gggaaaatct	gagtttaaag	60
cctgccaaact	cccctcatgt	aaatatctct	acaaccttgt	ctccacaagt	tattaatgaa	120
gtgtggcaag	aagaaacaat	tgggcgtcta	ctacaacttg	tagaccttcc	acttcttgac	180
tccttactga	aacagcaaga	ggctgtacct	aaaattcctc	aacctaaagag	gcagtccacc	240
atggtcaaca	gcagtaacta	tctggatcga	gggatttctca	aggcttatag	tgactctcag	300

<210> 929

<211> 300

<212> DNA

<213> Homo sapiens

<400> 929

aattccggtg	ctgtcgagat	tttggagttt	gacttgaggg	gtataccact	ggacttttca	60
tcttccgggt	gggattattg	tgaaggattt	tgagacaatt	ggacaaaata	aattaattgg	120
cacggcgact	gtagccctga	aggacctgac	tggtgaccag	agcagatccc	tgccgtacaa	180
gctgatctcc	ctgctaaatg	aaaaagggca	agatactggg	gccaccattg	acttgggtgat	240
cggctatgat	ccgccttctg	ctccacatcc	aaatgacctg	agcgggccca	gcgtgccagg	300

<210> 930

<211> 259

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (259)

<223> n = A,T,C or G

<400> 930

aattccggtg	ctgtcgggtt	tacattctat	gattgaaaaa	aattttttga	aaacttttta	60
tttcattctt	tcctgtagga	ttttgctaca	aataactttg	ggaatgnatn	aagtggaatg	120

ntaantttnc agngngccnn anntntnntt tttntctcgt anttgngaatt cegnttnntt	180
ntgttttttn nnttnncaat tttctttnta antnctngt gnntntnanc nnttggttg	240
ggtntnanat tgnngttna	259

<210> 931

<211> 300

<212> DNA

<213> Homo sapiens

<400> 931

aattccggtg ctgtcggaga ttgttgtctt gaactctggc actgtacagt gaatgtgtct	60
gtagttgtgt tagtttgcatt taagcatgta taacattcaa gtatgtcatc caaataagag	120
gcatatacat tgaattgttt ttaatcctct gacaagttga ctcttcgacc cccaccccca	180
cccaagacat tttaatagta aatagagaga gagagaagag ttaatgaaca tgaggtagtg	240
ttccactggc aggatgactt ttcaatagct caaatcaatt tcagtgcctt tatcacttga	300

<210> 932

<211> 300

<212> DNA

<213> Homo sapiens

<400> 932

aattccggtg ctgtcgtctt ggagctttca tttactaatg aggaacaaat gatagtcatt	60
ttatgacaat gtgttataaa ttaacaatcc tcttttaaac tagatttata aaacctacac	120
acttgagggt ttccatttgt tctatctaga tgtattttga gaaatctgaa acaaaagctt	180
gtttttttgt ttgtttgttt gttgtttgaa acagtcttgc tctgtcacc agcctggagt	240
gcagtgggtgc gatcttggct cactgtaaac tcggcctccc agattcaagc gattctcctg	300

<210> 933

<211> 300

<212> DNA

<213> Homo sapiens

<400> 933

aattccggtg ctgtcggggt tctcttgaat tattttggaa caatgccagg atccaaactg	60
attaagttac agtttaagca ccttccagta ttaatatata cgggtattata taacagggtca	120
acaagtgtct tttgatgata aaacttgtaa tagagcaata attgtaaatg gttaccatac	180
tgtaagatat tttgataaaa attaactagt aatacttgta tttatttgaa acactgggct	240
gtttgcacag ctccaactgt gcatgtcaca aatgtgcact ttttaaaatt gttactttta	300

<210> 934

<211> 300

<212> DNA

<213> Homo sapiens

<400> 934

aattccggtg ctgtcgagat tttggagttt gacttgaggg gtataccact ggacttttca	60
tcttcccttg ggattattgt gaaagatttt gagacaattg gacaaaataa attaatggc	120
acggcgactg tagccctgaa ggacctgact ggtgaccaga gcagatccct gccgtacaag	180
ctgatctccc tgctaaatga aaaagggcaa gatactgggg ccaccattga cttggtgatc	240
ggctatgatc cgccttctgc tccacatcca aatgacctga gcgggcccag cgtgccaggc	300

<210> 935

<211> 291

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (291)

<223> n = A,T,C or G

<400> 935

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aattccgttg ctgtcgcaaa ggatagctgt ggttgcattt tttcctgaga atggagtaag      60
tgattttcaa aaagcacaaa taattggcag tcagagagaa aatggatggc cagtgggtgt      120
tgagtcagat tttgncnnt nncacacann nataacaana nnttttaang atccngcncc      180
tacnngcttt cntactgcgg anacctgnnn acatcttact attccnnctc tncntncacc      240
gnngccgant acctacgnan nnnngtnatcn tncctgcgca tntttgaacc t              291

```

<210> 936

<211> 300

<212> DNA

<213> Homo sapiens

<400> 936

```

aattccgttg ctgtcgaaagg aatggttggt cgcattaaat ccatcatctt gagcactctc      60
actctgcttt tatctaatgt tccccctttt ttctctgttg ctttcctgaa gtagagagtg      120
attttgata agtgtaggat aaaatgtttg agcagatgac aagaaagtct ccattctgag      180
tctctgttct ttccaaatta ttaaactgca ggggaatttg ccatatccct gggcaggtaa      240
cactacacaa gagggagtgg gttgagcata ttatgtatat agatgtgaaa tacagctgga      300

```

<210> 937

<211> 300

<212> DNA

<213> Homo sapiens

<400> 937

```

aattccgttg ctgtcgatc tatccatact atgattatta aatcttatgc ggtacctaaa      60
cacaccacac ccttttgtgt tatttctgtt cttttctaca cgttcttccc actgattgga      120
gcacccctct gactcaactgg ctaactgcta ctttttgttc aaaaatcagc tgagagggga      180
actcatctgt gaatttttct ttgacttccc tctcccagg ctgggttagg tgccctcccta      240
tctctttttt tacttaatt ttttttcttt attatttctt tatttttttg agatggagtt      300

```

<210> 938

<211> 300

<212> DNA

<213> Homo sapiens

<400> 938

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aattccgttg ctgtcgaaat aagaagaagc aactgtacaa accatgtaag taaacactca      60
aatacttaag aaattgatag ttgacataa aaggatgtct ctcttgattt ctttaaatta      120
caatgtggac ctggtggtgg tagcatggac ctctttttgt ggattttcta aatctcttct      180
attttctga gtattaaatt tatccagaaa agtgtttagt ttagcgtgtc caccttttaa      240
agatttctga catttaagtt aaatttcaat agtctggttc aaaagatctg ccttacggct      300

```

<210> 939

<211> 300

<212> DNA

<213> Homo sapiens

<400> 939

```

aattccgttg ctgtcggcag ctggatggac actatagcaa acatcaatca agagctcatt      60
aaatatgaat tcttccctga agccactcga agtgaagaag acttaaagaa ataccccaag      120

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tacccctggg	ggagagaaat	ctatacttta	gaaggtgttg	tggatggagc	tccatattcc	180
atgatttctg	acttcccttg	gctgaggtca	ttacgagctg	cagagcccaa	cagcttcgct	240
cgatacgact	ttgaagacga	tgaagaaagc	actatctatg	ctcctagaag	gaaaggacag	300

<210> 940

<211> 300

<212> DNA

<213> Homo sapiens

<400> 940

aattccgttg	ctgtcgggag	gacatagcca	gggcggaaca	catcttcacg	gccactgaac	60
ggaaccgcat	cgactacgtc	agctccgccg	tccgtatcga	ccacgccccg	gaccttccgc	120
ggccagaggt	gtgttttata	ggcagaagca	atgttggaag	atcatctcta	atcaaggctt	180
tattttcact	ggccccctgag	ggtgaagtca	gagctctcaa	aaaaccagga	cacacaaaga	240
aaatgaattt	tttcaaagtt	ggaaaacatt	ttacagtggg	ggacatgcca	ggttatggct	300

<210> 941

<211> 277

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(277)

<223> n = A,T,C or G

<400> 941

aattccgttg	ctgtcgtca	gcttcaagtt	cctaagataa	gggctttctt	aagctttcag	60
gtgtatgtat	cctctagatg	tagacaataa	tgtcccattt	ctaagtcttt	tccttttgct	120
tctccttaaa	ttgattgtac	ttncaaaattt	gctgttangg	naattntcta	atacnnnnan	180
nanttagatn	ctctantega	nctntntnnn	ncnntnnctn	tantntatac	nntnatattn	240
tctnntaaan	tncctntctc	tntnncnanta	gcctctg			277

<210> 942

<211> 235

<212> DNA

<213> Homo sapiens

<400> 942

aattccgttg	ctgtcgggga	gaggatggaa	aaggcaccat	tacagaacag	gtttctagcc	60
aaactttcta	gatactactg	gtgtcaaaga	tgaaggtcat	gtgcagccat	gtaagattag	120
cccaaggagc	cagctcaaac	catgcacatc	cagggccag	cttggaattc	atgttctgga	180
ggccttggct	gggaggcaga	atctgtgaat	tttaaaaaca	ctttcatgaa	tccaa	235

<210> 943

<211> 280

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(280)

<223> n = A,T,C or G

<400> 943

aattccgttg	ctgtcggacg	aattggaagt	gctaagtatt	actatttcat	gtggaagtct	60
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gaaaataact	gcaccgaagt	gttctgataa	ataactaaat	tgagctagtg	aggggggaaat	120
ttcagccgtc	tagagagtgt	ttctcttaaa	tattttttct	ctcaagtgga	aaggagtgag	180
gggggagagcg	aggatcacct	angcctcncg	cctgngcctc	tgcngancn	ngacncaacc	240
tccttcaacc	cncgnnaacn	naaggngag	caccttcccc			280

<210> 944
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 944						
aattccgttg	ctgtcgagac	tgacagacatc	catacctcac	cacagaccaa	agatgacctc	60
gtgtcagact	gtgggctgat	gagaggtaga	gcagcatgca	tcgaggcctg	aggggtgcagg	120
gcgccctctc	ttggcctgga	ggaattgctc	ctaactagag	taagtttcca	cgagggtccc	180
aggcagagct	gcagagctgg	aaccggaggc	tccacagtc	ttgcctgctc	atggacctcc	240
ttcagagcac	ctttctacag	actggactgc	ccagctccgt	gggggtggcat	ctggtttctg	300

<210> 945
 <211> 300
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(300)
 <223> n = A,T,C or G

<400> 945						
aattccgttg	ctgtcgattt	aacttcaagt	gtgctgcgag	aaaacttcat	aatagttcct	60
aagatgtgct	aaaaagttaa	gtccaaaaaag	atcataaagt	ctgtagagaa	gttctaagag	120
tgacgtcagc	tataaaaacc	tagcaattta	atttcttaga	aaaatgtagc	tggagttcaa	180
actgtagtaa	caaaggcaag	taaattaagt	tgtgggcagg	tgtaattaag	ttaataggaa	240
tggcagggat	gaatataaat	cagaacagga	ctaacagnnt	gaaacattan	atattcaa	300

<210> 946
 <211> 253
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(253)
 <223> n = A,T,C or G

<400> 946						
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ngaggggnagg	ctcattancc	tcttggaana	angagganta	ttnctgnnna	tgaataggtn	180
nncancttan	gtantgacng	nnnttacttn	tnattatgna	ntgngnnttg	ncgttnnnna	240
gnnnnntana	cgt					253

<210> 947
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 947

aattccggttg	ctgtcgcgcc	ccggccccct	tcctgcccc	tcttccccgc	agccccgctg	60
gagcaccagc	ctcgcgcgtc	cggaggaacc	ttggcttggc	gccccatcct	ggtagcctta	120
aacttcatag	cactttgttg	tttttcttaa	aactctgagc	ctgtgcccgg	gcggatcacc	180
tgaggctggg	agttcaagac	cagactgacc	aacatggtga	aaccccgctc	ctactaaaaa	240
tacaaaatta	gccccggcgtg	gtggcgcatg	cctgtgatcc	cagctacctg	ggaggctgag	300

<210> 948

<211> 300

<212> DNA

<213> Homo sapiens

<400> 948

cgttggggcga	gatgaagcta	cactgtgagg	tggagggtgat	cagccggcac	ttgccccgct	60
tggggcttag	gaaccggggc	aagggcgctc	gagccgtgtt	gagcctctgt	cagcagactt	120
ccaggagtca	gccgcccgtc	cgagccttcc	tgtcatctc	caccctgaag	gacaagcgcg	180
ggaccgcgta	tgagctaagg	gagaacattg	agcaattctt	caccaaattt	gtagatgagg	240
ggaaagccac	tgttcggtta	aaggagcctc	ctgtggatat	ctgtctaagt	aagatggagt	300

<210> 949

<211> 300

<212> DNA

<213> Homo sapiens

<400> 949

ccctggtacc	ccctgccccg	gccgatataa	tgttttttcg	ccccctggg	acctcggact	60
tgggcttccc	tttgacatg	accaacgggg	cagccttggc	agccaacagc	aatggcatcg	120
ccggcagcat	gcagccagag	gaggaggcag	ctcgggcggc	tggtgcagcc	attgcaggcc	180
aagcctcttt	gcctgtgtta	cctgggggtg	accgcttgcc	catgggggct	ggaccctat	240
ccccccaact	ggtgactttc	ccattcccca	gtgtggcatc	cagtgeccct	cccctgactg	300

<210> 950

<211> 297

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (297)

<223> n = A,T,C or G

<400> 950

aattccggttg	ctgtcgagaa	atttgaaacc	agttgtcagt	tttcagggtgc	ccaggagcat	60
gacaatatgc	ccgagggacc	gtaacaggac	tgacatgga	gctgggtcta	aagcagatga	120
cctgggtggct	gcagcgtgtt	ccacacaggc	gagcactgtg	aggccaaagg	actggtgttg	180
agcagaatga	aaaagcacag	tggttggttaa	tcctgaaaag	tgaagcctgc	aagaaatgaa	240
cttcgacctt	ggagtggggg	tgggacaggg	gctanaagga	anagaggctn	ggaagtg	297

<210> 951

<211> 300

<212> DNA

<213> Homo sapiens

<400> 951

aagcaacggg	tcctctagc	tttgtgttgc	agagactaaa	ttccaggagg	gtccagccaa	60
gaggtcaggg	actccctaca	cccaacttcc	actctagggtg	gaggctttac	cataggtatg	120

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gcaggccaag acacagggcc ttgatcacc tctccatacc tcaactcaaga tggattttcc 180
atgccagaag taagccaaga acaccagagg ctattgtctc aactgagccc ataaagcagg 240
catgtaactc ccagagagtc aggccgcttt cctcactcct agctccagag tgaatgccc 300

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<210> 952
<211> 300
<212> DNA
<213> Homo sapiens

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<400> 952
aattccgttg ctgtcgcttt tcttttttaa agaaggctgc taattggatt ttggtagttc 60
ttacctcaag aaaacttgaa ttatttgggg gaaagtaggc taaaagaga atatatcttt 120
cacattcaca ttcagaaccc agcaacctgg agtccaattt tcagtatttt aactacctca 180
ataatgctat gaatgtaaga tattgggata gagatcccaa cttgaaacaa cagccagtgc 240
ctgtggtaac ttaatgtctt gtcaaatact tttattgatt ggtttatatg ccattcttgt 300

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<210> 953
<211> 300
<212> DNA
<213> Homo sapiens

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<400> 953
aattccgttg ctgtcgcttg tacagtattt ctacttttta ttctaataca ctggactggt 60
gcattatttt tatgtagatt gctaacaagg tttttgaaga aacactctta aaagtcataa 120
aagggaaaat cttgacagtt ctgggatatt gccacccttg accttttggg gaaatgtaga 180
cagcatctcc caggcatgac gcctagggat cgtgtttatc tgtcatcagt tggtgactcc 240
atgtttattg agcactggct ataagccaga cttggtgagg gactgaaaca attacaagac 300

```

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<210> 954
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 954
aattccgttg ctgtcggaag aattgaaaga gcaagtcatg gaagtagaag aagatccgca 60
aaccataacc actgaggaga caatggaaga agacaagagc cagtcggatg tagatcttca 120
gtcttgtaga tcttgtacca acagtgatag agcagaaaat gaaaatgggt ctatagcttt 180
ttctgaagat aataatgaaa caacaatgtt aattcaggat gatgaaaacc attcagaaat 240
gtcaaaggat tggcaaaaag agaagatgtg caataagatt aataaagtac attctgaagg 300

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<210> 955
<211> 276
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1) ... (276)
<223> n = A,T,C or G

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<400> 955
aattccgttg ctgtcgccca gtgcctgcac ggcttgggtg ggtgggtgca tggacatgcg 60
gccagctgcg gggccctgcc ccaccttcag aggacactgt cctccgagta ctgcggcgctc 120
atccaggctc tgtggggctg cgaccagggc cagcactaca ccatggatac cagctccagc 180
tgcaaggcct tcttgctgga cagtgcgctg gcagncaagn ggccatggna cnaananacg 240
gcgccacggn tgnccacac cgaggnnnga accctg 276

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<210> 956
 <211> 247
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(247)
 <223> n = A,T,C or G

<400> 956
 aattccggtt ctgtcgggtg acacctctga tgaggaaagc atccggggtc acgtgatggc 60
 ctcccacccat tccaagcgga gaggccgggc gtcttctgag agtcagggtc taggtgctgg 120
 agtgcgcacg gaggccgatg tagaggagga ggccctgagg aggaagctgg aggagctgaa 180
 cntgangnnn gngatcaggn gngcnnngnc gatgatgnng nagncnagtc tnnncngntn 240
 ntcccac 247

<210> 957
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 957
 aattccggtt ctgtcgggtc gatacttaaa accatcacaa gctgcccagg caatagaaaa 60
 ctgtgatcga agtttttagag caatcttggc tgaacctaaa aataaagcat ctgaatcctc 120
 tgaacaagat tattatagta atatgaggca agaagctttg ggacatgaac ctagagtaaa 180
 tatgtttcca tttgaacaac aatctgaatt ttcaagtttt gacaagaatg atagccgagg 240
 ccaggaagca atctccaaac gcttgtcagt tgtatcaaga gttcctttca ctgaagaaca 300

<210> 958
 <211> 280
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(280)
 <223> n = A,T,C or G

<400> 958
 aattccggtt ctgtcgtgtg gagccaacat tgtatgtgtg tggatattta caaatgcacc 60
 gttggattct ttgtcgttca agtgaatggt gactatttac aggtaaagaa ctctcttgtc 120
 tttgtagata tcagggttatt tgaatcaagt aatatttgcc tatctattta tacattaata 180
 tgttttaaaaa gaaatttctc caagaagaac attcgtcatt cattatttgn ttgatgagat 240
 gatacttaca tttttatngt gtantcatnn nanatctaata 280

<210> 959
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 959
 aattccggtt ctgtcgcaca ggactagcag tgagcaggca gatccctcag caccctgcct 60
 tgccccatcc agcttgctgt cccctgaggc ctacccctgc cggaatgaca tgaacactag 120
 gactccccct gaaccctcag ccaagcagcg gtcaatgcgc tgttaccgaa aagcctgcag 180
 gtcagccagc ccctcaagcc agggctggca gggccgcaga ggccgcaaca gccgttctgt 240

cagctctggg tccaaccgga cttagcgaagc atcttctctca tctcatcat cgtcttcttc 300

<210> 960
<211> 300
<212> DNA
<213> Homo sapiens

<400> 960
aattccgttg ctgtcggaaa aggcaaattc ttagaatttt aaagggtttt ctctcaagta 60
gttttaaaat ttcaaatgat ggtgttgat cccttccctt cagacctgga atcacatttt 120
cccccaaga cagaaagggc tctgcggcag gttgtgcctg ggaaggggct gcttctcatt 180
tgtggccacc tctctgcca ggagctggtg aggaaggggtg aactagggga tgcctttcag 240
aacaaaggag gtgaggagat gagccccctcc acatctgccc caaatagaga ccggcgctact 300

<210> 961
<211> 300
<212> DNA
<213> Homo sapiens

<400> 961
aattccgttg ctgtcggagc aggcattggtg gtgcatactt gtagtcccat ctacttggga 60
tgctgaggca ggaagatcac cggagccagg actttgggat tgcaatgagc tatgatcatg 120
ccgctgcact ccagcctggg caacagagca agaccctgtc tcaaaaataa acatagtatt 180
agtacaatga aaagacaaat cgagaataga taatacaaaa atagccttat agtaaccaga 240
cttactgatg aatgccacag acccgagta gtgcacatgg tttatcaggt gaattaataa 300

<210> 962
<211> 300
<212> DNA
<213> Homo sapiens

<400> 962
aattccgttg ctgtcgctt catggacctg ccagcctagt tggggagaag gactgggccc 60
aataccagaa gctgatccaa agtggtcaga actggggaag gagacctgtg agctgaaagc 120
aggtaaaagga agtatccaga cagaggcact ggtaaaagac ctggagctgg gaaggggtcta 180
gggaccaggg acaggttgta ctgtaattct ggaaaccttg tgaggctcaa agaaaggggc 240
agagagctca gtgggaaata gaaaaggcac ctgaacagtc cagggatggc tttcgactac 300

<210> 963
<211> 300
<212> DNA
<213> Homo sapiens

<400> 963
aattccgttg ctgtcgctgt ggccatcttt ccttacacgt ggggaggaat cagcctgaga 60
atgaaaccat cacaggaaag ggctgaaaga cggcaagttt tctctgggtc ttaccgacg 120
tgagcccca ctctccata tggacctgtt ttggaccaat gaggcacct cttctgtagt 180
cctcaacacg cggagctcca ccaactcctga gcagtgtgac ctgaggtgct tgctgcagag 240
gcatcggggg tctctggcca gaggtgacat ctgaagcaat cgggatcctg tttggttttg 300

<210> 964
<211> 300
<212> DNA
<213> Homo sapiens

<400> 964

aattccggtg	ctgtcgggtat	aaggtgtctc	agcacctgtt	tgccttctat	tccttttaga	60
aggtaagtaa	aagtaatggg	ggaaaggatt	aggtaggagcc	tgtctaaaca	ttctagtgtg	120
tcttggcaaa	catagcctga	aatgattctt	aaagaactgg	cattgtttta	tcaaataatt	180
ttaagggaga	ttccttaatt	gggaagttaa	gtctgtttgg	ggttcaaaga	gtaaatgagg	240
attagaaaat	catggagaga	ggctgggagc	ggtggctaac	gcctgtaatc	ctagcacttt	300

<210> 965

<211> 300

<212> DNA

<213> Homo sapiens

<400> 965

ctgctttgaa	gaactagggt	ggaaaaccac	caaggggtta	gtccactctg	cccccaaactc	60
ctgagtctgc	tgaaccagca	ccaccgcctt	cgggtgttgg	tcaggaagtt	gcccttgtct	120
ggtagggagg	gtgagcctct	gaaataaggg	ttgggagtca	tgcagtgtgg	ccttgggtccc	180
tggggggggg	gttaaaactc	aagagaaggg	ggaggaaggg	ctggggcact	gccctgaagc	240
catttccttc	ctcaccagcc	cagacaccaa	cccaggggtg	cgggagccac	attcatcccc	300

<210> 966

<211> 300

<212> DNA

<213> Homo sapiens

<400> 966

ggatctgacc	ctgattgggg	agagctgagt	gctgagcctt	gggagccctt	gccagccacc	60
tgcacctgtg	gacagtgggt	gggggcacta	ctccccactc	agagcacaaa	tgcaactcct	120
ttccctacaa	ttccatcctg	agccattgca	gggggcaggg	aagttcaccc	ccccaccac	180
cccccgccc	ccccgaagcc	atgtcactga	aaaggcctgg	gggggatggg	atatggccct	240
ttccccacca	ggcgctaagg	ggaacacccc	cttccccagg	tcttttattt	gtttaagtta	300

<210> 967

<211> 300

<212> DNA

<213> Homo sapiens

<400> 967

aattccggtg	ctgtcgggtac	atTTTTgcaa	ttgttttctt	ctaagtgtt	gtaagacaga	60
taaaatgtga	aaaattggca	ttaaacaatca	cttgggaaga	gtttgtttct	ttttagcttg	120
aggttggtaa	aatggattta	tttactccgc	gcccccccc	cctgcccccc	gcttccattt	180
gggctgaata	ctaaaagggt	tttagagaga	gagaaagtgt	caggggggtt	cataccctca	240
gtttacaatc	tgagaaacat	tttttttaaa	agcttccctc	caaacctgta	gcacattgcc	300

<210> 968

<211> 300

<212> DNA

<213> Homo sapiens

<400> 968

aattccggtg	ctgtcggcaa	tcctccacc	tcagccttcc	aaagtgtctg	gagctgtgag	60
ctacacctgt	gagatggcac	ccttgtcctg	ctgcatatct	taagagttct	gtttagtcca	120
tcaattgagg	tcaggaaaaat	gaacgtgtgt	aaagataata	tgtaatgata	ataatttgta	180
gacataaatg	ccagccgtgt	ctgttaacta	tttcagggtga	tattgtacta	aatctctgaa	240
atcacctgtg	atgaactttt	aaaataaata	aaacttttaa	gtcacagtgt	gattataaatt	300

<210> 969

<211> 300

<212> DNA

<213> Homo sapiens

<400> 969

aattccggtg	ctgtcgggtct	ttgggttgctg	ttcttttcccta	gactcttcag	aaaaaaatga	60
attaactagc	aatgcttaaa	gaggtagtaa	atacaagcca	atccattttc	attccagctg	120
catttcatgc	ttcagagtaa	tggtctgtag	ccagaatcac	ttgtgaagct	ttatacacat	180
atacattctg	tgatcttatt	ccctgtaaac	ccctattcag	tagtcgggtct	gtgatgaaat	240
cccaggcatc	ttcattcagg	ttaaaaaaaa	tatatatatg	tctacatgaa	attctgggtat	300

<210> 970

<211> 300

<212> DNA

<213> Homo sapiens

<400> 970

aattccggtg	ctgtcgggttc	tcattggctat	ggctaaagt	taagagggta	agcctccttg	60
tacaagctca	tgtaagattc	ttgcttatgt	cgtgactact	cacatctcat	tggtccaaaac	120
aatgccccaa	tttgccaaag	tccatggatg	ggagggattg	caatgttata	ttgaaaaagc	180
ttgatacata	gaggggtgga	gaattggagc	cagtcattca	acctacccca	tatcctttgc	240
acagtcacat	taaataatga	ataacatatt	tcttatttga	ttatttaatt	ggttatctcc	300

<210> 971

<211> 300

<212> DNA

<213> Homo sapiens

<400> 971

aattccggtg	ctgtcgggga	gaatcacccct	cagcacccgc	caagacctgc	agacacacct	60
gaaaccagag	ggcaggggcc	tgtggctcct	ggtgaaacct	tcattcattg	cctgtgggca	120
ctgaggatcat	caagttcagg	ggtcactcat	ggcagggatg	cctggtactg	agagactcag	180
ggctcctgcc	tccctcctgg	gactgtgcaa	aagatccctc	ccccagctg	ctgccccacc	240
ctgatcaggg	gagggggctg	ggcaacctag	ttgggggaga	ggggggccact	cctgtcctc	300

<210> 972

<211> 300

<212> DNA

<213> Homo sapiens

<400> 972

aattccggtg	ctgtcgggaga	gactgaaaac	agagaaaaag	ttgccgcctc	acaaaaaagt	60
cccactgctg	cactcaatga	aagcctgggtg	gaatgtccca	agtgcfaatat	acagtatcca	120
gccactgagc	atcgcgatct	gcttgtccat	gtggaatact	gttcaaagta	gcaaaaataag	180
tatttgTTTT	gatattaaaa	gattcaatac	tgtattttct	gttagcttgt	gggcattttg	240
aattatatat	ttcacatttt	gcataaaact	gcctatctac	ctttgacact	ccagcatgct	300

<210> 973

<211> 300

<212> DNA

<213> Homo sapiens

<400> 973

cttggttggg	ataaacttgt	gtatgoggat	acctgcttca	gtaccatcaa	gttaaaagca	60
gaagatgctt	ctggtagaga	gcatttaatc	actctcaagt	tgaaggcaaa	gtatcctgca	120
gaatcaccag	attattttgt	ggattttcct	gttccatttt	gtgcctcctg	gacacctcag	180
agctccttaa	taagcattta	tagtcagttt	ttggcagcaa	tagaatcact	aaaggcattc	240

tgggatgtta tggatgaaat cgatgagaag acctgggtac ttgagccaga aaaacctcca 300

<210> 974
 <211> 200
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(200)
 <223> n = A,T,C or G

<400> 974
 aattccgttg ctgtcgggac agtgtaggtc taggagacat taatactcac atccactaaa 60
 catcaaggta cagttatattt gagtgcact aagaggtgaa tgatgtttcc agagaccata 120
 acatgaaccc acttggctcg taggttaggg gtggcctctc tgtggtgggg ggangggatg 180
 nnnnnnnnnn nnnntnnng 200

<210> 975
 <211> 300
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(300)
 <223> n = A,T,C or G

<400> 975
 tttttctact cttctttttt gcagnttccc atttnattcg aattccgttg ctgtcgaaag 60
 aatccacact gccaggtcg gggagcagtg gtggccagca gccctcaggg atgaaggagg 120
 gtgtcaagag gtatgaacag gagcatgctg ctatccagga taagctcttc caggtggcaa 180
 agagggaaag agaggctgcc accaagcact ccaaggcatc cctgcccacg ggcgaaggca 240
 gcatcagcca tgaggagcag aagtcagtcg ggctggccag ggagctggag agcatagagg 300

<210> 976
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 976
 aattccgttg ctgtcgggca ggggaggggc ttccaggatt cacaggggca gatgggagcc 60
 agcagtgggc agctgggagc tgcgactcat tcaaagagag ggagttagt cagggtagcg 120
 agatcaggaa gaggagtggg gcagaggtgg gaggtgatga gactcaagac tacagagaga 180
 agaaagggcc ggcagcccag atcccagccc caccctcct gccctgcatt caggcagagc 240
 acagagggat aaagagggag gtgggttggg ggacaaggca gagatgcata tacctgggac 300

<210> 977
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 977
 aattccgttg ctgtcggtaa gttatatctc ttaactggat tctatagttt tatctcgagc 60
 aacttgaaa agctaagaca tctccaccc aactgggtat ctacgcgcct ggaagctgca 120
 ccttctctca ttgctgtgct ctgctttaag gaaaacctga tatgacagaa tcaagactat 180

taaaagataa atgaggggaa atcttcattt aagaaagttg ccttgctccc caagagtgcc	240
tttaattgct attccccag gcatctgggt gcatatcatt aatgaaatca ttaacctttg	300

<210> 978
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 978	
aattccgttg ctgtcggtag aattctgatt ggcattgggaa gtgttttctt tggtttgaaa	60
ttgggcatgg gcaccaattc ttcagtacca attctaggag gaacaatggc tgttagccat	120
ttccccaca tatctgagct tcagcatttt aaataagcaa caagtgggta tggtttattt	180
ttggaaccag cgtgaaggca gctgacacaa ctcattctggg ttgcctgggtg cttgcagggg	240
cccaaatgca taacagaaat tctttgtgct tcatatagat gaatttgaac agttccacct	300

<210> 979
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 979	
aattccgttg ctgtcgtctt taaagtcaaa ggggtgtaca ctctgtgatg ttattcgtaa	60
tatcatagga aggggttatt cctaataatca catgggttat cctaggaaga ggttactcct	120
aatatcacac tcctaataatc acagcctgtg atagcattcg gaatatccaa aagggatggg	180
acttttaatg tcacatgggg tgcacacctt ttgataatat tcgtaagatc ctaggggacat	240
atgacttcaa atatcacatt ggggtgtacac acatgggtgta cacattgtgt gtgaacacct	300

<210> 980
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 980	
aattccgttg ctgtcgggtg gactgcctgc cctcctctgc ctcatgtggc tgactcagtg	60
gccaagggac ctatccatct ctgaggtgag agctttcctg tcttgactgg tctccaagac	120
aagggtgaaca gggacctcac ctctacctcc ttcttagggg gcgagaacag tactgcccc	180
gtcaagagga gcacggggga atgggggggtc cccaccaggt ttcaagaccg actccgcctc	240
cctaggagta tggatgtaga aagatatgtg accccacaat agcaatgggc aaccttggac	300

<210> 981
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 981	
aattccgttg ctgtcgggtc cggtactttg cccaaagtca ccccgatgtc aagcgttaga	60
gcaagaattt gaaccccaga gcttaactct taaccatttt gctaactggc tgtctctcca	120
ggcccccatc accctttcca tcacctccc ctgccccagg ggcattctat caaatggcag	180
ttccccctc gcttgcttca gcatctccaa tttagagctt catggatctc ctctgttga	240
agtcatggga tggatttccc atctcagaaa ctgcacaaga aacaaccttg gagttttgaa	300

<210> 982
 <211> 300
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(300)
 <223> n = A,T,C or G

<400> 982
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 tgggagggg gtgatgtgcc ccacaagaca catcaagccc ctgcctctgc ctcgtcactg 120
 cctgggaccg gggcccagtt accccccccag ccccgatacc ttgggtcgcc cccatcacca 180
 acctcaccac cccccccgga gctgatggat gtgagcctgg tgggagggcc tgcctgactgc 240
 tccccacctc acccagcgcc tgccccccag caccgcggctg cctcagccct ccggactcgg 300

<210> 983
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 983
 ctggccctca cctcccgcg tagctggctg tgacgcccgc catgggcaca ctggggcagt 60
 gcagtgagaa gacgaggatg cccagcaggc tgacaacggg gcagaacagg cagaacttga 120
 tgaccgcgga gccccggagc ctgagcttgt tcacaaagaa gccgcccagg aagggtgccgc 180
 caccacccgc tggcaccacc agcctctcac cagagcagac tgcgggcctc acatcacccc 240
 cacctgcagg agggcgggctc tttcctctcg gccacaccta gagcctgggt ccgatgaacg 300

<210> 984
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 984
 cccgggcccag cgtcacagtt ggaggagagc agattagtgc cattggaagg ggcataatgtg 60
 tgttgctggg tatttccctg gaggatacgc agaaggaact ggaacacatg gtccgaaaga 120
 ttctaaacct gcgtgtatgt gaggatgaga gtgggaagca ctgggtcgaag agtgtgatgg 180
 acaaacagta cgagattctg tgtgtcagcc agtttaccct ccagtgtgtc ctgaaggga 240
 acaagcctga tttccaccta gcaatgccc cggagcaggc agaggggcttc tacaacagct 300

<210> 985
 <211> 296
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(296)
 <223> n = A,T,C or G

<400> 985
 aattccggtg ctgtcggaca tcacagcccc tatgaagaaa gtagccacaa tctcaaataa 60
 caaaagggaa tgttctaaaa ctttttcttc cttaaaaatg gagaaaattg cacttgtgtg 120
 tgctgtgtgg tatataaacc aggattatgc ccagggtcgt gaggtttctg gtgaaaagg 180
 taaatcgtag aagctagtat attttttata tttttgtaac aattgctttt tcatggggg 240
 aggcggggta ngatattata gncctaacaa gtccagtaat tttttataaa tcttca 296

<210> 986
 <211> 300
 <212> DNA

<213> Homo sapiens

<400> 986

aattccggtg	ctgtcgaggt	gcaggtgtta	gtgcaggacc	ggaaggggtga	ggtgtcctag	60
gcctcggggc	tcctggcctg	ggctggctga	ggcaggactc	tgccaaaagt	cccctgccag	120
gcctcatggt	ggtgtcctg	gtggcagtgg	ctctctggcc	gcgggccctg	tctgtgtctc	180
cgtgggtggc	ctcacagggc	tctccagaca	ctccttgact	gcctccttca	gtcttggccc	240
ctaggcctgg	ggccccttgg	gagcttgcct	gacctccctt	cctgggctgg	gtagccatgg	300

<210> 987

<211> 300

<212> DNA

<213> Homo sapiens

<400> 987

aattccggtg	ctgtcggctg	agcatactgt	aatagtcata	agtttaattt	cattataata	60
aaaataatca	aacaaaagga	ctttagaacc	caagacaatg	agctagtttt	ccctaaagtt	120
tgctgaacta	ttaaggaata	tggtcttata	gcttttgact	agaatgagtc	atgggaattc	180
taagaagggg	tggcctagac	atttttagct	cagttaaatt	cagcatttaa	tcgagggtgag	240
ttcctgggtc	gttttccaac	tagtctggaa	cagtctggtt	ctgactcaaa	ctggtataaa	300

<210> 988

<211> 258

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (258)

<223> n = A,T,C or G

<400> 988

cgacacgctg	ctggcgctgc	accagcacgg	ccactcgggg	cccttcgaga	gcaagtttaa	60
gaaggagccg	gccttgactg	cagttgcaag	aacngnaagg	naaangaagn	actntccaaa	120
atnanagngn	gnaatacttc	nnagantttc	tgtgngttat	tttnnnnana	nacnttcata	180
ttnanttttn	ttttnatntn	tatntnttat	tnnnatttna	nagnaatan	tattnnngatn	240
nnntntntan	ttcatntt					258

<210> 989

<211> 300

<212> DNA

<213> Homo sapiens

<400> 989

aattccggtg	ctgtcgggag	gacttgaact	cctcactaac	atgtagaatt	gggctatttc	60
ccactcgaaa	gtactgacct	ccagctttcc	taaaatccca	ccgcacatgg	gctagcaatt	120
ctgagatgaa	agcggaagct	gtcattccca	ccagtgtctc	aggcgccagg	gcagcctcct	180
cagggacgtc	cctgcctcct	cattgcactc	cacaaccaca	gcagagcatc	cacagtcgta	240
attaggcaat	tcttcttaaa	aaatgttatg	taattagcac	accatagaat	tccccatttt	300

<210> 990

<211> 298

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature
 <222> (1)...(298)
 <223> n = A,T,C or G

<400> 990
 aattccggtg ctgtcggata accaaaacag tatatgtagg tagaaaagag aagagtgtaa 60
 ggtccttagct ctggaggact ggtgatattt aaagcttagg gtgataagga ataggaatag 120
 agagtgtagaa cgaggggcca ggaaatgtag gaaagctaac aaagtatgtt attctaggaa 180
 tgaaagagaa agtgtatcat ggaggatgct gatngnctgc ntencacgtt tgtngnctag 240
 nctcatngct ntaatnnatn nanntcttga ttntgtcatt tentnannnn ctacctct 298

<210> 991
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 991
 aattccggtg ctgtcgtca aggcttcaaa cagcgcagat aaatgcaggc aagaaaagat 60
 gccgccgttg ctgccgtcac cgctccttg gtcgtccgcc acgggttgca ctgccgtggc 120
 agacagctgg acttgagcag agggaaacgac ctgacttact tgcactgtga tcccccttgc 180
 tccgcccact gtgaccttga accccatgca ctgtgacctc ccccccttct cccccctcca 240
 ctgtgattgg cacatcgaca agggctgtcc caagtcaatg gaaagggaaa ggggtgggggt 300

<210> 992
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 992
 aattccggtg ctgtcgggtt cttaacattt ctagtgtgtc gcaaccatcc ctgtcttaca 60
 ttacattatt aagttagttc tattacaaga ctaatgaatg acagaataga gcaaaccatgg 120
 actttggagt cagacagaca tgagtcagat aagagttcaa acccactgac tgccgtaaac 180
 ttgggcaaga gatttaaccc tgtcagggcc tcagtgtact cattagtaaa ggtaataata 240
 agtctgtagg aaataatacc tacatactta catttgacat atatttaatg ctccagctta 300

<210> 993
 <211> 271
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(271)
 <223> n = A,T,C or G

<400> 993
 aattccggtg ctgtcggagt ttttgetatt atattttatc agatgctaac atatccctaa 60
 cttctggctg attctttgct ttaatccttt ttatctatca gtcaccaaact acttaattga 120
 ttccttttgc tgggaaaaaa gccaaaaaaa aaaaccaaac tgcccacaag gaacttaaaa 180
 tcatttatgg ggattngnat ncagtttnntn gncccgangg cgcggnatnn nngcncccn 240
 nnanntnccn gggnttangn ngtnccacg g 271

<210> 994
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 994
aattccgttg ctgtcgggtga tttgttttcta ttaaaaaataa ttttcaagtg gtttcttgta 60
cttttagtatg aagacattga gtaaataataa gaagcatagg aacagtattt agagaaatca 120
gtaacctttt gtttacccta ttttgaatcc taaaagaaaa agttcagtta tcatggccag 180
gcgcgatagt tcaggcctgt aatcctagcg ctttgggagg ccaaggcaga cagatgacct 240
cgtgattggc ccacctcagc ctcccaaagt gctggtatta cagatgtgag ccaccgcacc 300

<210> 995
<211> 300
<212> DNA
<213> Homo sapiens

<400> 995
aattccgttg ctgtcgatat atttggcttc tataaaaaatt aaaaacccag ggataagaag 60
aaggggagag aattggaaaag cccctgggta gctttaaggg cctctcagtg cagcagaaca 120
catgctggct ctattcataa ctttggctctc tggatcaata ttctgaaagt tggtagatc 180
ttttcatttg tgtcttttcac agagggcagt aaaatttagc tctaattata tttagggcat 240
ctggattcta gtcagcattt tctggctccg ttttagaacc taaagtctgc ggcttattcc 300

<210> 996
<211> 300
<212> DNA
<213> Homo sapiens

<400> 996
aattccgttg tgtcgaatgg gagccatgct actggtttat ttacaccaag ctggatgggt 60
tccttttagg caagaaggag gtcattcagca ggctcccaac aataatgccg aagttaacaa 120
tgatgggcaa aatgcaaaca acttggaact tgaagaaatg gagcgtctta tggatgatgg 180
gcttgaagat gagatggag aagatggagg tgaagatgcc agtgcaattc aaaggcctgg 240
attaatggct tcagcttggc ctttcattcac caccttcttt acttcactaa taccagaggg 300

<210> 997
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1) ... (300)
<223> n = A,T,C or G

<400> 997
ctagatttct gggaaaacgt gactcgggtt cctctagaga agcagtggca gatgagagta 60
caaaggcaat ggggagctgg aggaaggcct taagcagggg cggcggcatg gtaagggttg 120
taggaggact ggctgcagca gaggcaggga gaccagtgtg gagtctgctc agcagcccac 180
tggaagggtg gtgatcgccg tggatgatgag cagttcttgg tagctgcagtg tgaggagggt 240
gacaggtcag gaactctagc tcaggaaacc ctgtggatgg tggagggnaa gatcagctctg 300

<210> 998
<211> 300
<212> DNA
<213> Homo sapiens

<400> 998
aattccgttg ctgtcgcaat tgaaaaacac agaactgtac ggaattttaa agtggaaata 60
tggcatctat cttccttgca ttccacgcag gtgtcatcca gccacaccct cctctctgca 120

gctctctctg	caagcactta	acacctggca	tgcaccttcc	agacctttct	tgtataaaca	180
tgcattgcac	gttttgttgt	tttctaacag	gattcactata	tgtgccattc	taccacttgg	240
tttttttaat	tcaacaaaat	gccatgagta	tccttttagtc	tttttatgga	cagccctagt	300

<210> 999
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 999						
aattccgttg	ctgtcggcgg	agatgggtcac	cagaattaaa	ggctgggaga	atactgaaga	60
gctcaagtct	attgagaact	tagaagaggc	cattagttct	ggccgagaga	aaagcattca	120
ggatttttac	aaagttttgg	taaatcccag	tgagcgcaaa	gctagactgc	agtagatcga	180
gaagtgaata	gaaagtgaca	aacacagacg	gagtgaaaac	aactctttca	gtaagtccag	240
tggtggagga	aagatagctt	aaagaggagg	taatagtaga	gtcagaacct	tcaacctggg	300

<210> 1000
 <211> 300
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(300)
 <223> n = A,T,C or G

<400> 1000						
aattccgttg	ctgtcggatt	ttctccctag	agtgactttg	ggctctgtcac	aggacttgct	60
gctttcccaa	gtataaaaaga	acaactgtat	tttagaaggg	gctgggttaa	acaccaggaa	120
agtactgggt	aaatataatc	tttgtaactt	agactgtgtt	cttatcacat	atcagcctga	180
taagaggcaa	cagtttcaaa	aaagtatttc	acttttgtat	ttctaggtgg	aacagacaag	240
ttcttcatgt	tgttggggta	ggggcagtg	aggggtcaagn	tcattatcaa	acttttagat	300

<210> 1001
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1001						
aattccgttg	ctgtcggaga	aaccaaacag	gtaaaagcaa	gtggtgaagc	cacatggatt	60
aatgagatga	tagaaagtac	aaaatcacta	tgtaagtcag	attaaaaagc	cagcttgcac	120
tctctgcttt	catctttttg	aagcaataac	tattacataa	atcagtgaat	acagtatttc	180
tacagtattt	gaaacggtgt	tcacacccag	caattccact	tctagacata	tatccaagag	240
aatggaaaaac	atgtgcacac	aggcacttgt	acatgaatat	ttatggaagc	attattcaca	300

<210> 1002
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1002						
aattccgttg	ctgtcggggt	tcgccatgtt	ggccaggctg	gtctcaaact	cctggcctca	60
ggtgatccgg	ccgctttggc	ctcccaaagt	gctgggatta	taggcatgaa	ccaccacacc	120
tggccaaaag	caggtcttta	tttttaagt	ccaatttatt	tgcttaattt	tgtctaaaaa	180
gatgatctta	atgcatacat	tagatgataa	tttctctttt	gttcacttcc	atttcaacat	240
aattttttcc	catatagtgt	cttttaactt	ttttaaagag	gggatatttg	aatgagacta	300

<210> 1003
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1003
 aattccggtt ctgtcgccaa agtgctggga tgacaggtgt gagccattgc gtccggctgg 60
 aatttcttat gggtcgtttc cttagggttaa agattcagaa gtaggatttt tgaattaaag 120
 aaactaaata ctgtctatgg cgcttgatac atcttgccag gcagttatca gacagggttg 180
 tactgggttg cgccacccca gaacgtgtgc aaggcctgtt tgtggaccct ccttggcctg 240
 gctgtctagg tcatccacct gcgtgtgctc acagagcata tggatttttc cctgcggtgc 300

<210> 1004
 <211> 234
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(234)
 <223> n = A,T,C or G

<400> 1004
 caacaacatg gtctctgtcc ctctctcttt gactctccct ttgtctctcc catagagctg 60
 ggggtggggg gatccctata cctggggcag gcagcccaaa agtgggggag ggggatggca 120
 gagactgtaa aggcgccact ggactctggc aaggccttta ttacctttac tcccctccct 180
 cccccatcac cagcctcaag gcttgagggg tgcaggggct cctggnagct actg 234

<210> 1005
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1005
 aattccggtt ctgtcgccca ggtactatta gaaataagac aaaaatctct gcctccaaag 60
 agtcccaga gctcttggga gtaagggttt ggagtggggc agacaaaagt acacaaacca 120
 ttggaccacc tgagccaggg gctgtgatag aggcctggcg atagtgggct tggcaggaag 180
 cacttgtggc catttgggaa aggggcacat tgctgtaaga tgctgaatgg ccaatgcctg 240
 gaataaggag ggtgtgcctg tggcaaagga atatcccagg tgctagggct cagcccagaa 300

<210> 1006
 <211> 300
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(300)
 <223> n = A,T,C or G

<400> 1006
 aattccggtt ctgtcgatga atagtactca aagtgttttt gttgcaactgt tactctgaat 60
 atggactctc tatactctgg atggcggtgac tgcgcataac ttctgtaatg tatttcagtt 120
 atntntnttt ccttntatng ccncttatg atnatgacac nctccnctng gatgnagata 180
 tatggaaacca tatnttataa naacccttgn ccnntnttnc ttctgacctt cagttcactt 240
 tgctcgccctt ggagaaagct gttnttcttt aactaaaaat aaccaaagt ctaaaaaaaaa 300

<210> 1007
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1007
 aattccggtg ctgtcggata aataagatac tgatgttgta gatttctttt tgcaaagatt 60
 atttctttac caaatttagc ttgtgactta tcttgagtt ataagacatt cctaaccatgt 120
 gactgttaaa gtcttggaga tggtagtatg gtttctttat tacttttcat tattttctcat 180
 gcaacaaaat agagcagagt ttattttaaa atgtgaaaag ttacactaat gaaattcatt 240
 ttattagtgt tgaaaataag gaagtaatta gagcatttct ataataaata agtaaccatc 300

<210> 1008
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1008
 aattccggtg ctgtcggcag gggtcattcc acattaccag agcttggtcc agagaggcag 60
 tgggaggctc cacaggcagg cttggagggt gcttgccct aatactaaat gttggacttc 120
 atggcattaa cgaaggggaa tcaactggagc cttttagtat gaagctaata tttttgtcca 180
 tcacaggcaa cttcttgctt acactctttt acaatatggc atttatgaca tagccaagag 240
 cgaagacacg ttgaacactg acttaatgct ttgagtaggt ggagagttga atgactcaag 300

<210> 1009
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1009
 aattccggtg ctgtcgcttg tttttaatgg ctcaactgtc tgatgtaatt gagtgaaggt 60
 ttgcactgag aaattagcat tcaggcctta ccccatgaa gtattactgt taacatatgt 120
 tcggactgct tcccttcacc aatgtgaaca actttttttt ccaaacagtg taaaagcca 180
 ctttgcaaca cttgacttca tcttaatgta cattcactgt tgttacatac atatctaagt 240
 aatcaaaagt tttgggtgga agtggtgaga agtatgagtt ttttggtgtt tttgttttac 300

<210> 1010
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1010
 ccgaaaggcc ttgtctgatg ccattaaaaa atggcaggag ctgtcaccag aaaccagtgg 60
 aaaaaggaag aagagaaaac aaatgaacca gtattcttac attgatttca agtttgaaca 120
 aggtgacata aaaatagaaa agaggatgtt ctttcttgaa aataagcgac gacattgtag 180
 gtcctatgac cgacgtgctc tccttcacgc tgtgcaacaa gagcaggagt tctatgagca 240
 caaatcaaaa gagatggcag agcatgaaga ctttttgctt gccctacaga tgaatgaaga 300

<210> 1011
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1011
 aattccggtg ctgtcgcgga aatgtccgaa ggcagcagta cttgaccctg tattttggga 60
 gtcgaacgga gaatggaaac tgaaagtgga aatcaggaaa aggtaatgga agaagaaagc 120

```

actgaaaaga aaaaagaagt tgaaaaaaag aaacggtcac gagttaaaca ggtgcttgca      180
gatattgcta agcaagtggga cttctggttt ggggatgcaa atcttcacaa ggatagattt      240
cttcgagaac agatagaaaa atctagagat ggatatgttg atatatcact acttgtgctt      300

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<210> 1012
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 1012
aattccgttg ctgtcgccca gagactggct cccagtgagc taagcccagc cgcgaccctt      60
ggatgtgccca gctgatttaa tactcatgat aaaccagta ggtcagtgcc agtattatga      120
gagaagttag gcacagaatg tcacatccac ctcccaaag tcaacagcta ggagtgcacag      180
agccaggatt ctgccaggca ggttggcctc agaggccaca cttcttatcc caataataaa      240
agtgaacaag aacaggatga agttagagtg agagagcgag agtggtaaca ctcatgcaat      300

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```

<210> 1013
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 1013
aattccgttg ctgtcggttt catcttcttt gcccatgtac ttactcagt ccataatgct      60
cacctctgcc tctgaaactg cccatccccct aagaccagc tcctttgtca cctccagtga      120
gaagcctcct ctgcttttct ttctcctct tggtcccttg cagcactttc tttgaacctc      180
tgttttggca cttaccatgt tgtttggtga gggctctggt tacttgtctg tttctttcac      240
tgggctgata tcctgtagac aggggacttt gcagaacatg tgggtggagag gagtcggtgg      300

```

```

<210> 1014
<211> 298
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1) ... (298)
<223> n = A,T,C or G

```

```

<400> 1014
aattccgttg ctgtcgagcg attagacctg tcataaagtt tgaaaaattg attctggagg      60
cgaagtgaat agattgagct tgacagtgtt gtcctaaaga ttctaaggga aaattctgta      120
gtttaatttg aaatcccttg attattcatt agctttccag atggcttttg ttgatgtttt      180
acatattaat gcctgtattg tgttattggt gtactcttaa tgtgcacata ggtaatgagc      240
anagaatana tacattggta agtgtcccan attaatggga tattancgta nttgcgaa      298

```

```

<210> 1015
<211> 278
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1) ... (278)
<223> n = A,T,C or G

```

```

<400> 1015

```

```

aattccgttg ctgtcggcctt actactaatc aaagaaacag attaaaacta cagtaagatg      60
tcattatttta atttattgat tgtggaaaga caaaagtacc agatgatacc agatgatgac      120
aagggggtaaa cagggtacttt attttatttta tttcttaaac attatctttt tttttttttg      180
naaanaccnn gccccccggg tggngngnccg ggnnnccant ntaanttggg ngnaccntnn      240
ccncgggggn nnaagggnnt ttncennent aaccccc      278

```

```

<210> 1016
<211> 260
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(260)
<223> n = A,T,C or G

```

```

<400> 1016
aattccgttg ctgtcgggaa agtcgtggag ggtaagcaca gtcctgaaga cacaggatgg      60
aaaccccgagg atgagaaggg agcagggaga gttccagaaa ggggggatgaa ataggagtat      120
taaaaagctg cgttggccag ttnttcattg ancnnntgnt gcnntnangc gtatnttanc      180
cttgctntat antcttntnc tntnnnnntn cnnntnntan tntaactttt ttntntnnac      240
nnnnnnnnnn tncgntgnnt      260

```

```

<210> 1017
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 1017
aattccgttg ctgtcggcaa gcatcaccgc tgtctaattc cagagcattt ctgtcacccc      60
aaaaagaaac tccatgccta ttagcagtca ctcccagttc ttcccttccct tttctcctac      120
ctcctttgac taagcctccc tcccctactc cctcctttcc ttccttccct ccttcttctc      180
tatcaatata atcactttgt ttcttttcagg tgagatcgga ctggaactgt tcggctgcga      240
ccagaaatth attttcctga gtaaattgcc gagaattaag aatgaagagg gccatttgca      300

```

```

<210> 1018
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 1018
aattccgttg ctgtcgctag ttataaaagt gtaattttcta ctgtgtcata atcagccatg      60
cagctggaga cttgccctct ttgtacagca aagttgtgaa aaaaagtatt tgactacat      120
ttatttaaac attaggaaaa aaagccaacc catgcttttc tttgccgaga ttagggctg      180
tattattggc tagtgagaag cctgggaaca ctaggacttt gtgtgggctg attgcaggta      240
tcagatccgg gattatacag gtactgttgg aagtatcttg gggattttcc tgataagaac      300

```

```

<210> 1019
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 1019
aattccgttg ctgtcggaac tctttaagaa agtcaacag ggaaatgaag ctctagatga      60
aatctgtttt aaagtttggg cctgtaatac agtccgtgat atactggaag gcagaacaat      120
tagtgttcaa ttttaaccagc tatttcttag accaaataaa gagaaaatag actttcttct      180

```

tgagggtatgt tcaagatcag taaatttaga aaaagcttca gaggctttga aaggaaacat	240
ggctgctttt ctaaagaatg tgtgtctggg gttggaagat ctgcagtatg ttttcatgat	300

<210> 1020
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1020	
aattccgttg ctgtcgggaa tacaaataga tgacctgtta tctgtgtcag cttttgatac	60
tatctgccct tcacgtcttt attcttagat tgatcatctgt gggcggaaaa ccttaagtct	120
ctacccatag aaataagccc accatatttc agaaaacatg gtgggtcata ggaaagcact	180
cagatgggac aacctagtgt gatttggtac aaaatgagcc agatgtggga aaaggcaaat	240
taatatgatt atgaaaagta agaattgatg agctgggtgc ggtgggtcag cctcccgaga	300

<210> 1021
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1021	
aattccgttg ctgtcgattg atttttagtg tattggagaa aattaaataa ttaggaggca	60
tgtttaaaga catctacaaa gcacccaat taatttgag tgagctttg ggatggcttc	120
ccaattctga gtcccaagat taaacaggcc aatcttgggc cgggcaaagt ggctcatgct	180
tgtaatccca gcacgtcggg aggccaaagt ggggtgatca cctgaggtca ggagtgtgag	240
accagcctga ccaacatggt gaaaccccat ttctacaaaa attacaaaaa aatttagcct	300

<210> 1022
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1022	
aattccgttg ctgtcgggtg ggtttcaatg agagaatgcg tgtaaaatgc ttcgtacaat	60
tactgccact tatgtctcaa taactgctgg ctttggtcat taataaaaga gggaaacaac	120
attatcagat ctgtatttag aaggagttct ggcagatagg gacagatttg tgccaaaatc	180
tcaagacagt atttttcaag attacactga aacttagtac atatttatat tatcatacat	240
ttttaaaaag gtcaagatga ttatagttag aaccacatag ttcttttttt aagaaagtca	300

<210> 1023
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1023	
aattccgttg ctgtcggatt tgtactatta agagagaaaa aatatgccac acaactaaac	60
atagggtgaa attatgaaga aatttagaat agaggtttat tagatttagg gaacactaag	120
aacaaaaaag gaaggagtga tacctgcctg agtggacagc tgtaaatcag ctgtaattac	180
tgcagttgta ccaatagtgt tgagtggctc cagtcacttt aggagtcctt ggaagtactt	240
ggtacacatt tgttggctgt accttaaagg aagtggcaag tccagtttgt tctctctacc	300

<210> 1024
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1024

aattccggtg	ctgtcgataa	ctttttactc	atatcattgt	ccctatatta	gtattaagag	60
cattttgtat	aaaacttcat	gtgaggatct	caattcttta	taattctctt	caaagcaagg	120
aagtatatat	agagagacct	ttatTTTTTT	gtaatttttt	caaatgggtt	gggagatctt	180
attctagccc	aattctatct	tggcacttaa	ttatTTTctg	gtggcttgta	atatggtaaa	240
tactggattc	cagattgcat	tcctatttcc	ttgggagggt	aggatactcc	catttgtaga	300

<210> 1025

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1025

cgcgcggttc	agagctgggc	gctgcagctg	cactgccgat	cgccgtgttt	ggtcgataga	60
atccccagtg	tgccagaga	gtgcgacccc	tcgcccggcc	cggcgagccc	cgggcggtgaa	120
ccgaactgag	ggaggatggc	agcctctggg	gtggagaaga	gcagcaagaa	gaagaccgag	180
aagaaacttg	ctgctcgga	agaagctaaa	ttgttggcgg	gtttcatggg	cgatcatgaat	240
aacatgcgga	aacagaaaac	gttgtgtgac	gtgatcctca	tgggtccagg	aagaaagata	300

<210> 1026

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1026

aattccggtg	ctgtcggcta	ccacccgctc	ctgggtgtctg	agtttttagca	gagcttttgc	60
cctctgagga	ccccacccca	gcctgcagat	atgaagggtg	cggtgctgtt	ccctgggagg	120
gacccctgaa	tagatggacg	ggagggactc	tggagccaag	gggtctcgca	acgtcactgt	180
gtggatggga	accctgagat	ccagggttgg	ccagggatga	ccacaggcat	cattcacacc	240
actccttcac	cgcaggcctg	cctgggggtca	gtggcgccag	ccccaccag	ccctgggact	300

<210> 1027

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1027

aattccggtg	ctgtcggcaa	cttcaccatc	ccagacaatt	ctcgttactc	ccgtaacata	60
cattgcttaa	taagggttcat	gcttgaacca	gatccggaac	atagacctga	tatatttcaa	120
gtgtcatatt	ttgcatttaa	atttgccaaa	aaggattgtc	cagtctccaa	catcaataat	180
tcttctattc	cttcagctct	tcctgaaccg	atgactgcta	gtgaagcagc	tgctaggaaa	240
agccaaataa	aagccagaat	aacagatacc	attggaccaa	cagaaacctc	aattgcacca	300

<210> 1028

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1028

aattccggtg	ctgtcgggtc	atatgcagac	aaagcacctt	caagatcttt	gaatgaactt	60
aaacaatacg	gatttttctc	ttatttgaga	gaattatttg	atgcacctga	tcctgtaatg	120
agttaccttt	gctgtcagta	tcataattcat	gaagttcctg	taggaactga	aaagaccaga	180
gaaagaattg	aacgggtaat	acaagaaaac	cgattaaaac	agatttatac	agcagaagaa	240
aagtatgtgg	tgaaaacttc	tttttattca	aacaaagtta	tttctagtaa	cacatctcta	300

<210> 1029

<211> 257
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(257)
 <223> n = A,T,C or G

<400> 1029
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 tcttgatttt tacgtcttca ctctttaccc ccttttatac tggtttcttc tcagattaac 120
 atcttatatt cnatgaagnn gangganatn tattnctggc tttannnnnt ntacnnccnn 180
 nngancnnet ntgtnnccnn tnnnanancn cnngtncnna tttttnnntn ctgctgaann 240
 nccantttct nctntta 257

<210> 1030
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1030
 ataatactaa aatatttact ttagtggttc ttgacattca aaaatgtcat tggatttgta 60
 attcaggat catatttgaa aatgagtcct ttaaaagata acataaatat ctttattttg 120
 acacacaagg tcaagactag aaatgtgttc ctgggtactt tcagcctact tggtttaac 180
 aaattgcttt tgaatatgaa tgtcctaatt taattctttg gacctttgag gggaggacac 240
 tatcacttct acatatgtag agaagtaaaa gtctcataga tccatcttgc tttaaaaata 300

<210> 1031
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1031
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 atcttgagag aaagtgtgag aaattgtgat ctaccggaat gttaatttgt gctgtctctt 120
 gtgcacgata gcagcagtag tatctctctt ggaaataaac atcccatatt atgatgtcta 180
 tgaatatagg tttcttttct ttccttccct cctctcttcc cccaccttcc tctttttttt 240
 ttctctctca gcttctcttt tctctcttcc ctcttctctt cctcttctct tacttttttt 300

<210> 1032
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1032
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 gcaagcatgc tccgctggac ccgagcctgg aggcctccgc gtgagggact cggccccccac 120
 ggccctagct tcgagagggg gcctgtcgca cccagcagca gcagcggcgg ccgagggggc 180
 gccgagccga ggccgcttcc gcttttctac aggcctcttg acggggaggc agccctcccg 240
 gccgtcgtct ttttgcacgg gctcttcggc agcaaaacta acttcaactc catcgccaag 300

<210> 1033
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1033

aattccggtg	ctgtcgacaa	gaacaagggt	gatagcggtt	ttcttgacac	atgcacttta	60
agctccaaga	ggaggcctcg	agtcagctca	caacaacatg	ccaacagtga	ctctgtgctt	120
actttgtgcc	aggcagcttc	tagccacttc	acatctcaact	taagttttta	ttagagtctt	180
aatgaagtgt	gctctctccg	acctatgccc	attactcaaa	tgctgcgggt	ctatttcttt	240
acttataaaa	tgaggttaat	aatgcctaaa	aaaggattgt	catgagaatt	aaacaagtta	300

<210> 1034

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1034

aattccgttg	ctgtcggttt	aaatgttttc	ttcgggatta	aaaaaacctg	aatgtattct	60
gggaaaatgt	taaatggatg	caacactata	agattttcca	cagaaatatg	ttattcaccg	120
tgaagcacia	tggaaggct	ccattagcac	tttagatggt	atcataactt	tggaaaaacc	180
atttcaccat	gcgagtattt	acaaaaactg	aagctgtccc	tgctcagggt	tgacagagct	240
tagctatata	ggtagtaagt	gacgcagtgc	caaaaccagt	cttaaattac	ctatgttgtc	300

<210> 1035

<211> 274

<212> DNA

<213> Homo sapiens

<400> 1035

aattccgttg	ctgtcgggga	ccacatcctg	cttcattgtca	gtgactcctg	cccccttggtc	60
ttcagtgttt	ttctcttccc	caggagggac	tttgatcatg	caggatagaa	ttctcccatc	120
gcacacctgg	gggcaagttt	tagatgagct	tcttctctcc	atttcacctg	gtggtctgag	180
gacacacaga	gggtgggggt	gagcaggcag	tgtgggtggg	aggggctacc	tccccagac	240
cccttataaa	ctctgtacct	ctcgggtgcg	ggca			274

<210> 1036

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(300)

<223> n = A,T,C or G

<400> 1036

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gaccttccac	ctccaccagg	tgccgacact	tccctgaccc	cagtaacctc	ttctcttggg	120
tgggtgaatg	ccacctgctg	atgtctgatt	tattcatcgg	ttttcttgtc	tgtagtctgt	180
cccccttggg	gacagggact	cgttctcat	gttcaccgg	caggctggac	acttcgtgga	240
gggtccaaa	gccggcagat	cccggggccg	cctctgtctc	tcccaggccc	tgcgtgttgc	300

<210> 1037

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(300)

<223> n = A,T,C or G

<400> 1037

aattccggtg	ctgtcgaaat	attgttttaa	aatgcatcag	cctatgctat	acaatctgaa	60
tggtatttta	acttataggt	ttttttaata	tatatattta	actataagga	cagtttaggg	120
aacaagttac	ctaccacatt	tcactttagt	gtacctat	acagaaagat	taaactgcca	180
cctgcgggca	cattcccata	aatgtgnact	ttactttaaa	aagaacatgc	cacgattttg	240
tctttctgtg	gactcaacat	tcacttcgat	taaaaatagc	aatttgacca	agttggactt	300

<210> 1038

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1038

aattccggtg	ctgtcgcttc	tccacctcat	ctcagcttag	ggactgggta	gatcgctccag	60
gtgacaacac	atgcttctga	acctacacat	ctgccttgct	ttctgaaaac	aattttctaa	120
tgtttttgaa	aaagtaatgt	atgcatgtat	tgtatccatc	agaatcctag	aaggacacag	180
agaatgctct	taaactgggg	agtttctgga	gagtttaata	aagatgtggg	ctgggcgagg	240
tggctcacac	ctataatccc	agcactttgg	gaggccgagg	cgggcagatc	acttgagctc	300

<210> 1039

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1039

gtgaaaaact	atcactttca	acaatgaaga	atagtaatat	gtcataatgg	agattatgaa	60
gttcagaaaag	gggtaaatgc	agttttgggg	agggctgaga	ctaagagaga	acacaataag	120
acaggcaatt	aagactgaca	tgaaagatca	gtcacattga	taggatatac	tcttgatatg	180
atataatgag	aatggcagtt	taccgctgtg	gttttctttt	cccaaaaccc	ataaccacag	240
cctaaccatg	agaaagacat	caaacaaatc	ccaatttggg	acattctgta	gaatacctaa	300

<210> 1040

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1040

aattccggtg	ctgtcgggat	cctcatgcgg	aagaatttga	agacaaagag	tggacatttg	60
tcatagaaaa	tgtaagctaa	tggcaaatc	cttcaccttt	cacattttca	actttatata	120
tgcattatta	aggtacattg	gcatttttgt	ggtaggaaaa	atgttgctt	aagaaaatta	180
aatagtgatt	tgtagctttt	agaatgtttt	taatgaaatg	atagccagta	acaaaattat	240
ttgtaagaaa	tgctttttatt	aacactgtaa	gtcttcaata	ctaaattgta	tgtatgtttg	300

<210> 1041

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1041

aattccggtg	ctgtcgggtg	ttttaaacac	cacttttgag	atgctaaaaa	ttcagtccca	60
atgggacttg	ttcaaattca	gttcagtttc	tggtcatcaa	aaaatcaatc	tgtttaaga	120
tctagtctta	cccatgaaaa	ctttaataat	ggtagatata	taaaacatga	gttaattacc	180
cccaaatgt	ttcagttttt	tcattgttat	attgccaaaa	accattcttg	ctatatatat	240
ttttaaaaga	agccatttgc	atgtccttta	gtggtagaat	agaaatttgg	ttaaaattgg	300

<210> 1042
 <211> 295
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(295)
 <223> n = A,T,C or G

<400> 1042
 aattccggtg ctgtcgggag cacttggggg ccaagaatgg caagatcagc aatcagcaag 60
 aagatcacca ttgctgactg gacaactgca ataaatttga cgggtgtttc tcttaaaaaa 120
 aaaaaaaant nctgggacan accanggacc cntgngttcn catgtcntgg ggnccagttt 180
 ttaactgggg aanccgnggn nggcntggaa aaggaggcag tgnccgngac tgtgctgttt 240
 tccgaagccc cntgcctgct gcctgttcct cggctcctcg ggctggactg gcgtt 295

<210> 1043
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1043
 aattccggtg ctgtcgctca aaggcactct catgacagac ggctgtgggga gcacagagga 60
 ggctggcaga gctggggact gagggcattg ttgctgattc tcactcaccg gggcagcctg 120
 ccgcagatgc acaggcccca ggtgcaggcc accacctccg ggctggcacc aggactgccc 180
 tcggtgctca tagggaatgg ctgggcccac ggaaggctcg cctgggatgt ggcctgggac 240
 tgctgctctg ctggctgctg tgtggatgct tttcctggag cactttccaa ggcattcccc 300

<210> 1044
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1044
 aattccggtg ctgtcggtag gaaaaatccc attctaataa gggttatatt atgtagctct 60
 gcaaataaac atctagcaaa tgtaaaaagt attttctttg ccttaaaaat gattaaaatt 120
 atttgaactc ctgaggagtg ttatatgaat aaaattagta agttatttgg aggaaaagta 180
 ttttttaaaa agacaactgg taaaacagta caggagaaaag gccagcttcc tcaagtgagg 240
 acagttgttt agaattgact gaggagcggc cgggtgcgga ggctcacatc tgtaatccca 300

<210> 1045
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1045
 aattccggtg ctgttcggtc tgcgtacgcc tggagtcctt ccccgctgtg ctcagcatgg 60
 accctatcgg gagcttctgc gggaagctgc ggtctctggc cagcacgctg gactgcgaga 120
 cggcccagct gcagcgagcg ctggacggag aggaaatcta ttgttttagat tatccaatga 180
 gaattttata tgaccttcat tcctaagttc agactctaaa ggatgatgtt aatattcttc 240
 ttgataaagc aagattggaa aatcaagaag gcattgattt catacaggca acaaaagtac 300

<210> 1046
 <211> 300
 <212> DNA

<213> Homo sapiens

<400> 1046

aattccggtg	ctgtcggacc	aacttgatga	tggcatctct	tttaagatgc	ccaagtctgc	60
gcacttttat	tcctttattc	ggccccctagc	acccccctccc	caccccaaag	aaggtcagtt	120
gcatgcgtgt	gggatgtag	ctcaaaaaag	aaataagatg	gagtggaaag	gaaagaaagg	180
aagaagcagg	aattcaaggt	gggtgggctg	agcttggggc	cacctagccc	acctgctcca	240
atcaagggtc	ggaacaaacc	tgaggccact	tggagaggca	gggctgggca	gggacagggg	300

<210> 1047

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1047

ctacttggtc	tttttgagg	atcccatcga	cagatcctgg	tacccccctgc	cgcgcgcgat	60
ataatgcttt	ttgcggcccc	tgggacctcg	gacttgggct	tccctttgga	catgaccaac	120
ggggcagcct	tggcagccaa	cagcaatggc	atcgccggca	gcatgcagcc	agaggaggag	180
gcagctcggg	cggctgggtg	agccattgca	ggccaagcct	ctttgcctgt	gttacctggg	240
gtggaccgct	tgcccatggc	ggctggaccc	ctatcccccc	aactgctgac	ttccccattc	300

<210> 1048

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1048

aattccggtg	ctgtcgggag	gtcggactca	ggaggctcct	tctccactcc	cgggaagatca	60
tgtaccagcc	cagccggggg	gcggccccgc	gtctcggccc	ttgcctgcgc	gcctaccagg	120
ctcgacccca	ggaccagctt	tatccagggg	ctctaccatt	cccacccctt	tggccccact	180
ccacgacaac	cacttcccc	tcttctcctc	tattctggtc	tccctgccc	cacgccttcc	240
caccacagct	cttccccagg	ttccccact	acctctcct	cagatccagg	ccctcagctc	300

<210> 1049

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1049

aacaaaacca	aaaagatgcc	cctttttttg	tagggataag	aaatacattt	gttttatact	60
tctatgctat	attttgctat	tcaaaattta	gtgggcatta	cttaacattg	tttctaatta	120
ttttgtggct	gctgtatgtt	ttatgtgttg	ggagccatt	gtattaggcc	gttcttggat	180
tgctataaag	aaatacctga	gactgggtaa	tttggttttt	tgggtttttg	gggttttttt	240
tgagacggag	ccttgctctg	tcgcccaggc	tggagtgcag	tggcgcgatc	tcggctctat	300

<210> 1050

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1050

aattccggtg	ctgtcgggac	atttagtctg	cctgggtttg	aatccctagca	ttgtcattta	60
caggtaagta	tcactctggg	caatgcatct	ataaattggg	ataataatac	caaattggaa	120
caataatgat	aggtttagtt	taatgattaa	atcaaataat	gagagtaaac	tcctggagta	180
gtgactgaca	catggcatgt	aataaacatt	tttctttcta	cgagggtattg	atatttatta	240
acctcttaaa	agcaatttgg	actccctttg	tctcttattg	tcctgtgaca	gttaccatga	300

<210> 1051
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1051
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 tatattttta acacaattgt aggcttctct tttgagaagg tagatttccg tgttgatatct 120
 gatcatggca gtgtctcaga aggctgagtg tctgccttaa gtttacgttg tcaacgcagt 180
 ttagagggtg aacatgtctg tggacatagt tgaactgggt ttttgaagat gtaattacca 240
 attacatca tggccaaatt ggaattatta tttttaattg gaattattat ttttaaaaaa 300

<210> 1052
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1052
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 tgggaggatc gcttacaccc aggagattga ggctgcaatg agctgtgata gtgccactgc 120
 actcagcctg aatgacagag ggacaccctg tctcaaaaaa aaagtcagtt tctcacttgg 180
 actaactact ttttaactgt taatagctgg tggctgccat actggacagc ccaagactag 240
 aggtcaatg ggctgttctc cactctctgt ccaagggaac ctccctttat gtgctttttg 300

<210> 1053
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1053
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 gtcattgaga aaaggatgga acattcaata aagggtgctg gacacatttg tgctctaaaa 120
 attttgtgtt tcacctatta atttatccct ccccttagcc cctggcaaac actgatctgt 180
 ttactgtctc catagttttg cctttccag aatgtcacac ccttgggaatc atacagcatg 240
 taaccttttc agattggctt cttttacgta gtaatatgca tttaggattc cttcatgcct 300

<210> 1054
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1054
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 aagtgttaag aataaaatat gacctatag caaaaaccc aggcagatca ttcttcaagt 120
 gtaaaggcca tggatagggtg ctgcgaagca tgaaagccct tggggaagat ggtgtccaac 180
 tttgggttgg ggcccgtggg aggctgaaca aaacctagcc attggggagc tgggtgaagt 240
 cagagacagg aggactggta ggaaggagag aacctcttct cttatagaat gactaagcaa 300

<210> 1055
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1055
 aattccggtg ctgtcgagat ttactatta tacactaaat tttcaataat gattagaatc 60
 tgaaaaaatt tgaaattgtg aataaaatgc ttttaaacat tttatcaagc attacaaaag 120

tagagaatag tataatgaag caacaccaag cttcaaccat tgatacatgg ccagtctttt	180
ttaatctata cccatccctc ttcagtcac ccccttccac cctaaattat tttgaggcaa	240
tatctctaaa agatgaggac atttttaaaa acaaatataa ttttattatc ataaataaaa	300

<210> 1056
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1056	
aattccgttg ctgtcggggg ctgttggcat aatcacaagc ctgtctgtct tcgagaaggg	60
acagtggagt catccagggg ctgccacatg acaggcacgg tgggcaccga tccacagtgg	120
gccccgcctt cccagctcg cctccctgcc tgtgtggcc tggccttggc tgctggcacc	180
attggagtag gaggggggtgg aacacagggg gcccatcctg atcaggcccc atctcaaggt	240
tggcactcct gcccatcacc cttagaagga tcttttccca tggcttgact tccttcattt	300

<210> 1057
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1057	
aattccgttg ctgtcgggat gctgaaggcc tctttccccc ctgtgtgtgt gtggggatca	60
aatcagttgg gggcctagac ttaaaagggg gcacgtgggt aggaaatctc attagctgac	120
aatttaactc cactctaatt ctgcgtccaaa gagcccgga aaagacttcc tctcctttcc	180
ctttgcagtt ctttctcctt gctcctctct tctccccctc cctctaaac cagaaaggaa	240
aagcagcgtt gggcctgtct ccttcccccc agattcctgc agttctagtg tgccgactga	300

<210> 1058
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1058	
aattccgttg ctgtcgctca attgttggtt taagattgac cttacctgtc tgttgaaatt	60
gaccatagca catccttgat ccttgagatt ttactattca acctgttttt ctgtttttgt	120
tgttggtctt ttcactccct gaaattagga gagtagtaca tatttgtgtc ttccacagac	180
gatacagact ttaagatgta gaagctcatg gttttataga tgaagggtt tggaactctt	240
cccttcaggg tcaatgtact tgattgtctg aattaaactt ggttccaag ttaataactc	300

<210> 1059
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1059	
aattccgttg ctgtcgaaaa aaaatttaatt ttgaacactt ctgttttgtg cagttttctc	60
tggttatatt tactttttta aaagaaaaag cggctgagcc accacgcca gctcacatt	120
tttattttta aaacctctcc aggttggggc cgggtggctca cgctataat cccagctgtt	180
agggaggcag aggtgggagg acagctcgag cccaggagtt ccagatcttc tgctgggca	240
atataatata gcatgaccct gttctaaaaa aaaaaatctc tgaaaaagat gattcaaaaa	300

<210> 1060
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1060

aattccggtg	ctgtcgtgaa	aaaggaaaaa	tcacaataat	aaccacaaaa	gtacaaaaga	60
tcattacaga	ctattatgaa	cttccatata	cttacaaact	agaaaagcta	gaggaaatgg	120
atacatttct	ggaaagcaag	aaggaataga	aatcctaaac	aggccaataa	tgagtagtga	180
tattgaatca	gtgatttaaa	aaatcttcca	ataagaaaaa	gccaggaccg	aatggagtca	240
tagccaaatc	ctaccaaaac	tataagggag	aactaatacc	aatcctcctg	aaattgtgcc	300

<210> 1061

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1061

aattccggtg	ctgtcggata	gggcaatcca	agagacatag	tcctaacccc	agagtagcat	60
gtaatccctt	cttagcatcc	ctctttgaaa	actgaagata	gtacagctga	gggaactgaa	120
caggttccca	ggatcataga	gaatcattaa	gctgaagcaa	acaaacaaac	aaacaaaagg	180
caaactagaa	gaaaagcagg	attcaatggg	ttctgcacct	tcttagtcta	tcattgcttt	240
gtaaacattc	tccggtttta	cattactaca	gaatatggtc	cagatataaa	gttctactgt	300

<210> 1062

<211> 285

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(285)

<223> n = A,T,C or G

<400> 1062

aattccggtg	ctgtcgcaca	actggccagt	ggcagggcta	ggatttgaaa	gcagttcttt	60
tccatttttg	ttgttggtga	ctcaaagtca	ttctgaactt	tcagaattca	ggtgggtgat	120
gggggtgggt	gggggtgtcn	gtntgnntct	ntnttccctc	tttaantget	cttaccnnch	180
tannccatgn	atnannnctn	ctnnnnnnngn	tcctctntnc	nntctannga	tttcttttgt	240
nannaacttt	nnatcgnttg	tcnnatgann	ntnnntgttc	tatct		285

<210> 1063

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1063

ctctcccccc	ctccctctct	cttcccttcc	tctctcttgt	tgtaactggg	agtggaggcc	60
cactggctgg	ggagacatta	ggtgggtggg	cccagcccga	cctccagggt	cttcccttctc	120
cctagctgtt	gctttggtct	ggccactccc	agcccccttg	tcccccttga	agcttgccct	180
gccctcatct	tgcccatgcc	ttctactgcc	aggagacttg	caccatttcc	aaccctaggg	240
cggggggcaag	tgggggcaagg	atggaccagc	agaagggggg	taaggctctg	ttcacttccc	300

<210> 1064

<211> 290

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(290)

<223> n = A,T,C or G

<400> 1064

aattccggtg	ctgtcggacc	ttacctgtat	tccctgtgct	atcctgtggg	aaggtaggaa	60
tgggctaagt	atgatgaatg	tataggttag	ggatctttng	gntntaaatc	ncagacaanc	120
taattcaaac	tggcttaana	tganaaggat	ttatngnttc	atgtaactag	aangatnnta	180
ncnngngttt	gnttcngnnn	aagantnngn	ccncggnng	aattaccntn	tananccnna	240
ngganttnng	ntttaaannt	ngtgtnnnnt	nagggttntg	nattaaaaaa		290

<210> 1065

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(300)

<223> n = A,T,C or G

<400> 1065

aattccggtg	ctgtcggagc	tcgtgagtgg	gcgcgcgcgc	caccgcccc	gccgcccgtc	60
tctcggtagc	agccttcgcc	acgccggggg	cttcagctcc	actggggcca	tgtagagcgc	120
agaagagcgg	cggtttgtgg	agatccctcg	ggagtctgtc	cggctgctcg	cagaggacgt	180
gtgctatcgt	ctgagagagg	ccacgcagaa	tagctctcag	ttcatgaagc	acaccaaacg	240
ccggaagctg	acggttgagg	acttnnncag	ggccctcaga	tggagcannng	agtaggctgt	300

<210> 1066

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1066

aattccggtg	ctgtcgccaa	ggtggatgta	gaagcgggct	ccggcgctcc	actctccctt	60
ccatatgggc	ttagcgtctg	ggtcactgag	aacgacgtct	gaatagggcc	ctgggtcctt	120
gccatggatg	aatgtggttc	ccgcacccgc	cggcggggtg	ctctcccca	aaggaaccgt	180
ccaagcttgg	ggtgtatttt	tggcgctccc	accgtggctg	agctcgagcc	cggagatgag	240
gggaaagagg	aggaggaaat	ggtggctgat	gaacaggagc	tggaaaaccg	cgggcgtact	300

<210> 1067

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1067

aattccggtg	ctgtcgcaga	acacctaggt	cctagcataa	gccccacctc	ctccaggaag	60
ccacctgact	ccctccagca	acagctctgc	actttacctt	tgtattctct	cctttctgac	120
tatggtcagc	agacttctaa	gacggcccc	aaagattgcc	acctggtatt	catgtgctcg	180
tgttatctcc	tcctcttgaa	tgagctggac	ctagtgactt	ctagtgcaca	gaaatgtggt	240
gaaagtgatg	ggataacaat	ttccagatta	agttataata	gacactgtgg	gctgggtgcg	300

<210> 1068

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1068

aattccggtg	ctgtcggatc	ttggagagtt	tctcccaggc	tccttgtgaa	ctgctccgct	60
ggtgtgggag	aagccaaagg	ggcaaagctc	aagacggtgt	ctccctggtg	agggcagtta	120
cattggcata	agttgtctag	cataacttgt	catgccgacc	ccttttcaag	atagcagctt	180
cattcactga	taatgtggca	gtgttccccct	tcatcagtg	aagacatggg	atgtgttcta	240
ggggaattta	tagtacttga	catgtatgag	ggaaattcta	ctatcaatta	agtacaagag	300

<210> 1069

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1069

aattccggtg	ctgtcgggct	gtacaaaagg	tagacataat	agtgagaagc	cacctgagcc	60
agtcaaacct	gaagtcaaga	ctactgagaa	gaaggagcta	tgtgaattaa	aacccaaatt	120
tcaggaacac	atcattcaag	cccctaagcc	agtagaagca	ataaaaagac	caagcccaga	180
tgaaccaatg	acaaatttgg	aattaaaaat	atctgcctcc	ctaaaaaag	cacttgataa	240
acttaaaactg	tcatcagggg	atgaagaaaa	taagaaagaa	gaagacaatg	atgaaattaa	300

<210> 1070

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1070

aattccggtg	ctgtcgcaca	tacacacaca	tacacacaac	acatacacac	acacatacac	60
acacatacac	atacatacac	acatacacac	acacatacac	atacacacat	atacacgctc	120
acagacacat	gagtgaatct	acatggaata	tcccttgaat	aaaatgcaag	caattgggta	180
tagtgattgc	cactggggca	gggaactagg	aacttgatag	taaggccttg	cagaaaaatt	240
actccttatac	atacacagtt	tttggtattg	tttgagattt	ttaaaaatacc	atacatgtat	300

<210> 1071

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1071

acttcgattg	aattcccggg	gctgtcgatt	tagttatttg	aagagagggt	ctcatttctc	60
agaaaagata	tgagaaaccc	aaatagaaaa	ttattagaga	tctttgagac	actctattta	120
cattctggac	ctaattcttt	tgaattgtct	tatatgagtg	agtactttgt	ggcagaagat	180
ctagacattt	taataaaaaca	ttttaatata	aatatctaga	tatttttagat	acataatttaa	240
gtatctaaaa	ttcagacagc	caggggtggt	ggccgtatac	ctgtattcct	agctacttgg	300

<210> 1072

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1072

aattccggtg	ctgtcgcgct	tgctgtcgga	acattcttcc	ctggaaccag	tgctccacat	60
ctttcttttc	ctctgagagc	tgacgtggc	agggacctcc	ctctgctgct	cctccagcaa	120
gccacagagc	ataccctcac	gtgacaagag	tgtggtaggt	tttctcccca	cttctcacac	180
acgcctgggtg	gttgtgggtc	catctgcctt	gttggcttgc	ccggggggat	tcaacacttg	240
actttcaaat	caaagaatgc	taatgcttag	cacttgctgt	tgagcatgct	ctaactttta	300

<210> 1073

<211> 252

<212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(252)
 <223> n = A,T,C or G

<400> 1073
 aattccgttg ctgtcgagag aagcttttag tcaaaagtca gtttattaaa tgtttagaat 60
 acctaaacag gaagaaaatt ctattgtttt ttataacaaa gtggaagatt tcaagaaagg 120
 acaactcact gtacacttga gaataatacc tacagagggt catactgaag agtagtctca 180
 ataatgtaaa gaatttgaca agcatgatgc tattgaaata gttctgtcng aagnggtgtt 240
 nnttttctt tt 252

<210> 1074
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1074
 aattccgttg ctgtcggttc ttgctgctgc tcaggtagaa catctgggag gtcccttgct 60
 gaccttgga agaagatgag ctcgagctat tggagtgaga cgagcagcag cagctgtgga 120
 acccagcagc tcccagaggt gctgcagtgc cagccccagc attaccactg ctaccatcag 180
 tcaagccaag cccagcagcc tccagaaaaa aatgtagtgt atgagcagat gaggacctac 240
 agtggggcca tgaacaaggt ggtgcaggcc ttggaccctt tcaactcacg ggaagtgttc 300

<210> 1075
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1075
 aattccgttg ctgtcggaag gagcaaaaat ccagcaacaa ttggccaaaa tacataataa 60
 tgtaaaagaaa cttcagcatc aattaaaaga tgtgaagcct acacctgatt ttgttgagaa 120
 gctcagagaa atgatggaag aaattgaaaa tgcaattaac acttttaaag aagagcagag 180
 atatgaagag ctaattaaag aagagaagac aactaataat gagttgagtg ccatatcaag 240
 aaaaattgac acatgggctt tgggtaattc agaaacagag aaagctttca gagcaatctc 300

<210> 1076
 <211> 291
 <212> DNA
 <213> Homo sapiens

<400> 1076
 aattccgttg ctgtcgaagg atataagttt ataatactgc tttttttgat tcccttgccct 60
 aagaaaaatt aggtatgaat aaaaatttaa tttgaactga tatcacttcc cttaccattc 120
 acatgttaac taattgataa gataaaaatg tgttgtagta gaatagacta gatcgtatgc 180
 ctttttagat gaaaattata gaagatattt agtcatagta actacaaagg caaaaataat 240
 atcacagcaa aaccagtaat aggaatgctt gcagactttt tttttttttg g 291

<210> 1077
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1077

aattccggtg	ctgtcgggaa	gataggcaat	gccatttttt	tcaaatgtac	acatacacac	60
acacaataag	aaatgtat	aataatacat	tttaccttat	tttcaaggct	tatcatgaca	120
gtaactat	tttaaataat	aagaaggagg	aaggtaatat	tatgaattac	taccaccaac	180
agaaaataat	gctgttgatt	acccattaaa	atggtacagt	agtatcattg	tctgttggac	240
atatagatca	gtttttttct	tctaaatgct	atttcaactc	tctattatta	acatatatat	300

<210> 1078

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1078

aatgggtatt	gtcttagtct	gtttgtgcta	ctgtaaaaaa	tatctgagac	cgggtaattt	60
ataaagagta	aatttctttt	tcacagttct	ggaggatggg	aggttcacga	tcaagatgct	120
gccaggttcg	gtgtctggtc	agggccaggo	ttctgcttcc	aggatggcac	cttgcattgct	180
gtctgttcac	atggtggaag	ggcaaaaagg	gggcctagct	tgctttctgc	aggcctctta	240
taagagcact	caaccatttg	tgatggcaga	gcctgtgtgg	cctcatcacc	ttccaaagcc	300

<210> 1079

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1079

aattccggtg	ctgtcggaaa	ctccctggag	cgacgcagcg	tccggatgaa	gcggccttcc	60
tcgggtcaagt	cgctgcgctc	cgagcgtctg	atccgtacct	cgctggacct	ggagtttagac	120
ctgcaggcga	caagaacctg	gcacagccaa	ttgacctcag	agatctcggg	gctgaaggag	180
ctcaaggagc	agctggaaca	agccaagagc	cacggggaga	aggagctgcc	acagtgggtg	240
cgtgaggacg	agcgtttccg	cctgctgctg	aggatgctgg	agaagcggca	gatggaccga	300

<210> 1080

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1080

aattccggtg	ctgtcggtaa	acttaaggca	taaacttctg	aaaattagtt	atgtataatt	60
ttattcaatc	taatgtacat	tttaaataatg	gataattgat	agttttttct	acaaataaaa	120
atgtactata	tatttagtta	cataaatact	gttcattaac	tttgaattga	gaaaatggat	180
accatttgca	ttgctattgt	ggctttaatt	ctgtgggttc	agatggctat	taaaattaca	240
tcttttaatt	gtgtttattt	ttaaagttga	aaagtgatca	ttatcctcct	gttcattttg	300

<210> 1081

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1081

aattccggtg	ctgtcgggat	tattatgcta	ctttattaat	gtttattggt	attcttttaga	60
aagtaaat	ttgtaggctt	ataaaattaa	gaaatctagt	ttttagtaac	ataatcattt	120
gtccctttta	aattttaaat	cactctaaat	ctgaacataa	tagctaactt	aaaataagta	180
gcatttggat	tacattat	ttgcagataa	ctgattatct	gtgtgaaatg	atttagtatt	240
ataaatgttt	tgtgataaag	tttatggtaa	agattgatta	tagttacctc	atttttatct	300

<210> 1082

<211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1082
 aattccggtg ctgtcgtggt aattttcttt actcctgtat ctgatgtctg ggctgcgatg 60
 actcaaaggc tgatttcagc tgagactgta gaccacgtgc ctacttgtgg cctccccctt 120
 tgcttgggtt ttctcacaga atgtggctgg ttctggagaa tgagacttcc aatgaaatca 180
 ggtggaaatg acatctcgcc gctttcagca tgctctattg gttggaacag ttatggactt 240
 agctagattc aaaggaaggg aacaaagacc ccctcctctc agagagtggg gcataatgag 300

<210> 1083
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1083
 aattccggtg ctgtcgggac aaaaccacag caagctgtca ggtttctgag tgaactgctt 60
 acttttccat aattgataga taatacagcc atgtctttaa gagaactctt acagagttaa 120
 ttattatata tggcaatatt aatagagaaa aatatttcat gtgattttta gagaacttaa 180
 gcatttgctt taaatgtttc ttaagcccta gaaatatagc tataatttca ttatttatcc 240
 tctcttaaac agatgattcc ctggtaaaga gaagaaaaac actgtataaa gtacagctgt 300

<210> 1084
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1084
 aattccggtg ctgtcggaaa gaaatcattt aaatgtacta tatgtggcac aggctgtatc 60
 gagacctacc aaatcactag acatcgaaac attcatcttt ggtgaaacca cacaatgga 120
 ttgtgtgtgc caaggccaac aagtcaaaat atgttgaacc taatgatatg atgtgtataa 180
 aggggtgcaag gacacgtgga aatgatctgt aatattcggg ttattaaaaa tgtaattggc 240
 tgggcgcagt ggctcacacc tgtaatccta gcactttggg aggttgaggc aggtggatca 300

<210> 1085
 <211> 293
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(293)
 <223> n = A,T,C or G

<400> 1085
 aattccggtg ctgtcgggag agacaacgag aggaagaaag gagaaaagac atagaaagac 60
 gagaggcagc aaaacaggaa cttgaacgac aacgtcgtt agaatgggag agaattcggc 120
 gacaggagct tctcaatcaa aagaatagag aacaagaaga aattgtcagg ttaaactcta 180
 aaaagaagaa tcttcatctt gagttggaag cactgaatgg caaacatcag cagatctcag 240
 gcagacttca ggatgtccga ctcaaaaagc aaactcanaa gactgactgg aag 293

<210> 1086
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1086

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aattccggtg ctgtcggcca actgttttat gtacttgaga agcaggtgtt aacttcctca      60
gttacaaatg agaaaaccca ggcttaaggg gattgactca ttgccaata gtcatgcagt      120
taattgcgtt tgttttgcca cacagccact gttctttaca tagcaatttg gtatatagag      180
aaaatatggt gccatggtca agggcacgac tttagaggatg gactgtctgg cttcaaaaat      240
ctgatttcca tcccttactt attatgtaac ttggccaaa ttactgaatg tcttaacctt      300

```

<210> 1087

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1087

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aattccggtg ctgtcgcaga gacttgctga aggattaaaa ggattttctc ttttggaaaa      60
gcttgactga tttcacactt atctatagta tgctttttgt ggtgtcctgc tgaatttaaa      120
tatttatgtg tttttcctgt taggttgatt ttttttgga tcaatatgca atgttaaaca      180
cttttttaat gtaatcattt gcattgggta ggaattcaga attccgccgg ctctattact      240
ggccaagtac atcttttctc ttaaaattat ttagcctcca ttattacaaa aaattataaa      300

```

<210> 1088

<211> 282

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(282)

<223> n = A,T,C or G

<400> 1088

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aattccggtg ctgtcggctg gagtaaaccg tgatcgagtt actgcactcc agcctgggtg      60
acaagagtga gactctgtct ccaaaaaaaaa aaaaancngn atngccnggn ttaactcngg      120
nncannntg cagncnagt tntgcngetn tgctgttngt tcnngntttn tccannnatn      180
ggcttcaccn ttgggnacca aaanggctgn tgctttccag gcttnanntc canactcaaa      240
cccanaaaan ctgcccattc ntacctgggn gacctttgt ag                          282

```

<210> 1089

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1089

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aattccggtg ctgtcgcttc tctgccccta aatttgata tccatttcga gatttagaat      60
ccaaacgctt ttattggaga accattaaat taagaataaa gttctaaatc agtttctcca      120
attagttcta ttatattcta tagtatatat actgtaattt tgcattccca cgtgtgtcct      180
aataaagata cctatagctg aacagtttgt agcatggaat aaataaaaaa caaatgattc      240
gtgttataaa atactaacat cttttgtaaa aacacaaaaa tcttgtagct atatatatat      300

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<210> 1090

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1090

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aattccggtg ctgtcgcttc aaacctaaaa atcaagttat ttctttttat aatacttttc      60
ttccccatgg aacaaatggg atcaatttgt gagttttttc ctttaatgat aactaaaaac      120

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cctctaattt	ctcatttatg	cttttgtctt	ttttatgaaa	tatttctttt	aaaagcccca	180
ggcttcacct	acgaaatatg	aagagcaaaa	gctgattttg	cttacttgct	aaactgttgg	240
gaaagctctg	tagagcatgg	ttccagtgg	gccaaagattg	aaatttgata	ctaaaaaggc	300

<210> 1091
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1091						
aattccgttg	ctgtcggatg	cctgctctaa	gctgcaggag	cagaagaagt	cactcaccaa	60
ggagaaggag	gagctggagc	tgctgaagga	ggatgtgcag	gactacagcg	aggacttgca	120
ggagatcaag	aaggaacttt	caaagactgg	tgaagaaaaa	tacgtggaag	aatctaaagc	180
cagcaagaga	ttgacaaaaa	gggtgcagca	aatgatcggg	cagatcgatg	gcttgatctc	240
gcagctggag	atggaccagc	aggctggcaa	gctggccccg	gccaacggca	tgcccacggg	300

<210> 1092
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1092						
aattccgttg	ctgtcgggtt	tttaagaagt	cgttaaactt	aatattttact	agatatttgt	60
ttttggatgg	catctaatat	attaatagcc	cagaaaaaag	gcgccactaa	tgaatatgtc	120
ttggattaca	tagtgacata	tattagcttt	tcgtccacat	ttgataacat	tgctaataat	180
ttcttttttt	ttactgaagc	tctttgaatt	taaagttttc	tctcatttaa	atttattaat	240
taaaaacata	cctttactct	gttcccttta	gcatttcaac	ctgatgttaa	aagatgtgta	300

<210> 1093
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1093						
aattccgttg	ctgtcgcatt	aaagtcacta	agaataacca	ttttttccag	tatatatgga	60
atatacacca	aaaaagacct	tatcctggac	catagataca	ttttaacaaa	ttcccaaaga	120
tttatatttt	cagagactgt	tttctgaata	ataataataa	attagaagta	aaaaaaattg	180
gaaaattcct	aattatttgg	aacttaaaaca	tcatgtttgt	aaatatccct	gagtgaaaat	240
aggtctaaca	aaaaatctac	taaaataagt	ctaataaata	aatttagaac	atattttgaa	300

<210> 1094
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1094						
ggcacaattt	gaagcccaac	ctcagattct	aagtcccata	tattagtttt	tggtacaat	60
catcagtaaa	ggagaatatt	ttaaaaacct	ataaaggagt	ccttgacaat	actatctaaa	120
tttttttata	cattgataat	tttataatat	accctgtata	tattaggtaa	atgcctgtag	180
gtctccaaag	acctagaatt	gagaatcaga	gggtaaacat	ccaaacaaat	cccctagatg	240
tgggaaaaata	aggaagttat	cttatttcgt	cgtcatttat	attgagggtga	atcatgatgg	300

<210> 1095
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1095

aattccggttg	ctgtcgcaca	gctcttggtc	tccagacctg	atgaggaaaa	tataagttcc	60
tatttacagc	tcatagacaa	gtgtctaatt	catgaggcat	ttacagagac	acagaaaaaa	120
agattgttgt	catggaaaca	gcagggtgcag	aagctctttc	ggtctttccc	tcggaaaaacc	180
cttctagaca	tatcaggata	tcgacagcaa	agaaatcgag	gctttgggca	atccaaactcc	240
ctcccgaagg	ctggctctgt	gggcgggtggc	atgggcagac	ggaacccgcg	ccagtaccag	300

<210> 1096

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1096

aattccggttg	ctgtcgggaa	attcagttac	ataaataaat	tacccaagtt	acatacctat	60
atactgatag	atttcaagtc	atgttccaga	aatcatgttt	ctaactagta	tgctacactg	120
cctgtctcga	aaaaaaaaaa	atagtaacta	tgctctacac	tacgcagtec	acttactatc	180
ccagttcctt	atttctcttt	gctgcaaaat	gtcttgaaag	agttatttat	gcctgctgtc	240
tgcaagttaag	ccatttcagg	gggatggagg	gcgcacaacc	ttatttgaag	tgggttgagg	300

<210> 1097

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1097

aattccggttg	ctgtcgcaca	gtttaaaaaa	gaaattagtt	tctcctaattg	tgcaacattaa	60
aagtagtaaa	aatggccaat	tttggttaaat	cttgatcctt	gagtacattt	ttgtgtgtgt	120
gcattttttc	cttgtaaaaa	taatccatgg	gagggcatgg	tggtcatgc	ctgtaatccc	180
agcacttttg	gagggccgagg	gaggtgggtg	gatcacctga	ggtcaggagt	ttgagaccag	240
cctagccaac	atggtggaac	cccgtctcta	ctaaaaatac	aaaaattagc	cggcagtggt	300

<210> 1098

<211> 270

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(270)

<223> n = A,T,C or G

<400> 1098

aattccggttg	ctgtcgcttc	ccttccttcc	ccttccatct	ttctttccac	atgtcctttc	60
cttattgggt	cttttacctc	ctacttttct	cactccctat	cagggatatt	ttgggggggg	120
atggtaaagg	gaanccnncn	canannccct	ggaactnngt	tntnnncngc	tcnncnaann	180
ggnncntng	cnaccnngt	acntcnacce	tannaanncn	ntacagtnga	aancaaccn	240
nncnncnman	cncccnncn	cncnncnana				270

<210> 1099

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1099

aattccggttg	ctgtcgctca	ttccaaggct	atgcatatgg	atgtcacatt	cccatgtcaa	60
tcattctctgg	aagggtattat	tcgcccagtt	ttttaagcat	gggaaactga	ggcttagagt	120

cttaaaaaat aagtagctgg cagtctctca gcaaataatg atgggtgctgc actacagacc	180
cagatctgtg actccaaagt cagcctttgt tcttttcttc ttgttacttt taattggaaa	240
aaaattttaa ttgcaaaaag ttgtagagtg ataaaaacaa aaatccacga atgctcttct	300

<210> 1100
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1100	
aattccgttg ctgtcgaga ataagcctat caaacatagg tcaaattggt aaataaagaa	60
tgaagcgta aaagccatag aagaattttt ctgttgctt ggagtagaga gaccttcta	120
agtttgacac aaatcccaga agctataaca taaaagactg atacatttga caacatcaaa	180
atgagatcca cttcataaga gtaacactgt aaacaaagtc aaaagataca tgataatctg	240
agaaaaataa tttggaaaaa atatgataaa aggagttaat tttcttaata tactaagagc	300

<210> 1101
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1101	
aattccgttg ctgtcgctt cctttatgag aaaagaatag accctgatag atgaagctat	60
aaagtcttat aacatatctt cattgaacgt gtgatttttt ttaaagtata aatagcatat	120
tcatattttt gcaaattgct tgttttcagt acgcagcgtt ttgagagctg tgtatgttaa	180
tgagttgac tcccgaacag tgggtttgaa ttgctcaggc ccacttatac ctagctttta	240
ttcaacccaaa cacataatgg ccagcatata tgaggagcta acttttcata tgtgtggtct	300

<210> 1102
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1102	
aattccgttg ctgtcgacac aaacaaacaa aaaccctga ttcttgagga tcttgattcc	60
ataggtgtgg tctctgcaag caattttatc tgggaattgaa gaccactggg gttctgggac	120
aaaggttttg aaacagacag ggggtccaaat tctggctcta ccacttattg aggtgtataa	180
atgtgaggaa gttactaaat gctctgaact tcagtttctc ctggaaaatg ggataattat	240
gtctagcttg tgtggctatt gttaggatga aatgagatac aagtatgtag agtacctagc	300

<210> 1103
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1103	
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caaccaggcc tccccatctc catgaacctg atcttgctag agtcacaagg acctccacga	120
tctccacatt gctaacccaaa tgggtcaatgt tcagttctca tcttattcag ctcatcagca	180
gtccataact tctcttctct tgatgcatat tcttcaccta gcttccaaaa cctatacttc	240
tcttggtttt tctctgcctt accagtaatg ccttactggg ctctgtgctg gtccttctc	300

<210> 1104
 <211> 282
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(282)
 <223> n = A,T,C or G

<400> 1104
 aattccggtg ctgtcgcata ccagctccta agccctatta agaagaggcc tggctcctcta 60
 atgccttggt tccatttcag ttgttctttg agagacagaa tgatgtacta accattcgtg 120
 attattagag ataggggatgg gtcagggctn agntanntgn cngncttntt gtggntgggt 180
 ggnnctttga ncnnatctna gngetgtntg tgnnngtacn nnntnggtgg ttaatntatc 240
 catgctgena nggetgtcan ggantngnta agcgaatttc ta 282

<210> 1105
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1105
 aattccggtg ctgtcgcctca gggcacagca ggcagtgtgt tagccttggt ctcccttgcc 60
 ctccaagtc caccagggcaa tactggcagg ccagaggaaag tgttacacac tgcaggtttg 120
 catgacggct aaggaaccac aatcttaggg agatactatc tctgtcttct aaggccattt 180
 gctgtacaaa aatccttgaa atacctgggc acagtggcac acctataatc ctagcacttt 240
 gggaggctga ggcaggcgga tcacctgagg ttgggagttc cagaccagcc tgaccaacat 300

<210> 1106
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1106
 cctaaacttcg aaacccgcta cttgttcttt ttgcaggatc ccatcgactg ggagcccggc 60
 tcactcccgg aggcctctgc ctgcggctga cctgatcccc aagggaactgt cctttcctct 120
 cctaccccac cccactccca gacagagcag aagtattttt ataagcagag aattttttat 180
 gtcttaccag atagagttgc aggggaagggg gggcctgctg gggagtgggg tttggggggc 240
 cctctcccag gacactgcct cttctgggca gaaggccct ccagggggac tgctccaaca 300

<210> 1107
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1107
 aattccggtg ctgtcggctg attcatatct gtaggattaa taaatgggtc tgttatatcc 60
 gttttactga tggtgaaatg aaggaccaga gagagtaagt ggcctttcca aggttcaca 120
 gcaagcttgt ggaagaaaacc accaagaaac cagctcttga gacttcacag atttgttcca 180
 gttcctctgc aagggaacc cccattccct gctctctctt tttccctcc tcacaggcag 240
 caggatatgt cacagacagg cctggagctg ggctagggta ggagtcacct gtgaggctcc 300

<210> 1108
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1108
 aattccggtg ctgtcgggaag gagagttaa agtcaataag cattacaaaa attgccattt 60
 tgacatcagc aatcaaatt tctctatcta attaaaggaa aaccctttct cttatttctc 120

ttctcttttc	ctcttctctt	cctcctcttc	tatttcccc	ctccttatcc	ccttgctctc	180
ctcttctgct	ctttctctac	tctctctttc	tctttttttg	atatatttct	atcatatatt	240
ttcagaaata	attcagtgge	atctcatgta	gatgtaccac	tttcttattg	caactcagag	300

<210> 1109
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1109						
aattccgttg	ctgtcgcaac	ccttactcct	ccggccaagg	agccaatgtg	agcattcagc	60
tggcagctaa	gaatgtgtat	cccaataaac	agggcagacc	tacagaccca	ctggacccac	120
tagagatgga	cttgggccac	agtgccttcc	atgacttcag	taaacagagg	ggtgtggtga	180
tcttgtcaaa	gtcctggcgt	caatgtcagt	gtccggctac	acaccatgtt	cccgtcctcg	240
aaaagcctct	ctgtacccct	ctatgttggt	gacacaaccc	tggcaaattg	ccacagactc	300

<210> 1110
 <211> 292
 <212> DNA
 <213> Homo sapiens

<400> 1110						
aattccgttg	ctgtcgggca	gaagctgtgt	cctcagtact	ccgtgatgac	gagtgagcct	60
ctgtgaaatg	gacaggtggg	aaaacagcta	cctgctggcc	tgcccaggca	cccgccacgg	120
gcccacgctg	ctcagcttct	caatgtgaga	ctgtccacac	ctgcgaggtg	tgctaaagg	180
gcaggttagg	tggactgacc	ccaggacctc	cctgaccccc	aaccaggcca	gcggaagcct	240
gccacctcct	atgtgcggac	cacacccagc	attggcctag	ggggcggtat	gt	292

<210> 1111
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1111						
aattccgttg	ctgtcgctaa	tttgtggtac	gatattgctt	attgtgactt	tggcatgtat	60
ttttgtatgc	aaaatgctgt	aagatttata	ccattgatct	tttttgctat	atttgataac	120
agtacagtaa	gcacaattgg	cactgtacat	ctaaaaatat	tacagtagaa	tctgagtgtg	180
atatgtgtaa	ccaaaatgag	aaagaataca	agaaatgttt	ctggagctag	ttatgtctca	240
caattttgta	gaatcttaca	gcatctttga	taaacttctc	agtgaaaatg	ttggctaggc	300

<210> 1112
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1112						
aattccgttg	ctgtcgctaca	aaaaaaattt	taattagctg	ggtgtggtgg	cacatgccta	60
tggccccagc	tacttggggag	gctgaggtgg	gaggatcact	ggagcccga	agttcaagcc	120
cacagtgatc	catgattgca	ccactgcctt	ccaggcctgg	gcaacagagt	gagaccctgt	180
ctctaaaaaa	gaagaaatga	ttgaaatcat	atttttcagg	ctggacttcc	aataaaagtag	240
cccttaaaag	gatcattctt	aaaatattag	ccatatacaa	tggtcataat	aaatgtatgt	300

<210> 1113
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1113

aattccgttg	ctgtcgcata	tcagtaaaga	agtaaacaag	aataaaaatac	atgctaaaaat	60
gtcatacact	ctttttgttc	taacattttg	atttggcaga	gccaataccc	acctatacta	120
caactttctt	atgccagcac	aagaatgcta	tattcaaaat	gctttccatg	tattaccttc	180
ttttatcctc	agatatcctt	ggcagatagt	agggcagata	ttaccctcat	cttattgaag	240
aatattctgg	gtataaggaa	gtcaaataac	ttgtcaacag	ttacaagggt	atgaggtaaa	300

<210> 1114

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1114

accattgaat	acccgctact	tgttcttttt	gcaggatccc	atcgatctga	aagcgggcag	60
cactgtcatt	catagccaaa	cagtcctatt	gagaggtctt	ggactatcag	gccagctgtc	120
agaccactcc	atgcactggg	tgtgctctgt	tggtcagggg	ctgggagggg	aactacctct	180
ccttccctta	accaagcatg	aattatgttt	gttagcaaac	ctctctggga	atatatgtca	240
agccacattc	ctcctggggc	agctgcaact	tcagggtctc	acaataaaca	gttctgaaaa	300

<210> 1115

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1115

ggcacacatg	gccaccatg	cagggccaca	caaagaagca	ccgggggttg	tcaggaggcc	60
gagggaaact	ttattgtcga	ttccaagaga	aagaatgggt	gagagagagt	agtatgaata	120
agtgtagtgg	gatctgggag	ggaggagctg	tccctaatta	tctggtgtct	ccccggggat	180
tgggttaagtc	aggggacagg	gaccaggaca	tgagagcctg	aaggacctgg	ttgggggtgtg	240
agcttttaggt	gcgttgcttt	gcatacgaaa	ggtacctgga	agatgagttg	tttgtcctct	300

<210> 1116

<211> 291

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(291)

<223> n = A,T,C or G

<400> 1116

catgccgatg	ctgtccatgg	gtgccaaagca	agccagtttt	ttggttccct	gagggaaact	60
gaccctcctc	tcttgtggca	ccatccagcc	tcagggtctt	ggagacttga	gtaagaatgt	120
gagtggaggg	ggagngnatn	tcttaagggg	gnngacccca	annccctgag	gaacatgcnc	180
ttngnnaaga	agncaanann	nagggccttn	anangangca	tgcnanantg	ccnagggtcat	240
gantgcnant	gccgangtat	gangnacntt	ntnanacnnt	gnnaggaggc	a	291

<210> 1117

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1117

actctagaat	acaagctact	tgttcttttt	gcaggatccc	atcgacagat	cctgggtaccc	60
cctgcccgcg	ccgatataat	gcttttttcg	ccccctggga	cctcggactt	gggcttccct	120

ttggacatga ccaacggggc agccttggca gccaacagca atggcatcgc cggcagcatg	180
cagccagagg aggaggcagc tcgggcggct ggtgcagcca ttgcaggcca agcctctttg	240
cctgtgttac ctgggggtgga ccgcttgccc atggtggctg gaccctatcc ccccaactgc	300

<210> 1118
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1118	
aattccgcttg ctgtcgggtca ttgcaccaa gcaatacctc tatgtggctg acctggcacg	60
gaaggacaag cgtgtttctgc ggaaaaagta ccagatctac ttctggaaca ttgccaccat	120
tgctgtcttc tatgcccttc ctgtgggtgca gctgggtgac acctaccaga cgggtggtgaa	180
tgtcacaggg aatcaggaca tctgctacta caacttcctc tgcgcccacc cactgggcaa	240
tctcagcgcc ttcaacaaca tctcagcaa cctgggggtac atcctgctgg ggctgctttt	300

<210> 1119
 <211> 297
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(297)
 <223> n = A,T,C or G

<400> 1119	
aattccgcttg ctgtcgggtca attgtttctt ettcaagttc actgattctt tttttcttcc	60
tgtctagatc tgcctttcag tctctctagt ggatttttaa tttcatttat tgtacttttc	120
ggcttcagaa tttttgtgtg tatectttta ggttttcatt ctctgtgtt ctcttactct	180
gttgcctttt tttttttttt ttgggggcn nnnttngngg nnaaggngga ncnaaancnc	240
ngggnnnaaa nnanncnnc nnnccaant ncnnggggaac ngggancnga attggcc	297

<210> 1120
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1120	
aattccgcttg ctgtcgcctt gaatatgtaa aaatacctat catatcagtg taatactatc	60
ttaacaatcc taaaaaccag gaaagaaaag caaaatacag ccaaataat gtcaagaatt	120
cttggaagg ctgggtgcag tggctcctgc ctgtattctc agcattctgg gattacactt	180
gagtcagga gtttgagacc agcgtgggca acatggcaaa acctcatctc taaaaagggt	240
acaagaaatt agcaggcatg gcggcgcgctg cctgtagttc cagctatttg ggaggctgag	300

<210> 1121
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1121	
gtggttcttg aagaggacct ggacattgct gtggattttt tcagtttctt gagccaatcc	60
atccacctac tggaggagga tgacagctg tactgcatct ctgcctggaa tgaccagggg	120
tatgaacaca cggctgagga cccagcacta ctgtaccgtg tggagaccat gcctgggctg	180
ggctgggtgc tcaggaggtc cttgtacaag gaggagcttg agcccaagtg gcctacaccg	240
gaaaagctct gggattggga catgtggatg cggatgcctg aacaacgccg gggccgagag	300

<210> 1122
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1122
 aattccggtg ctgtcggcca ctgcgcacgg cctggggagg ttttatttct tgacaaaggt 60
 atttgatact cgtgcagtcc ctggaggggtc tcaactggaga gacaacattt aggctgagat 120
 ctgattaaca ggaggcagct gcagtgcaga ggtcaaaagg gaggggtgtc caggcagaga 180
 aaacagcctg tgcaaaaggcc ctgaggcaga aacaaactct acttgagggtc agcctgggta 240
 gaaagcccaa ctcaaaatag aaagtattac atgataaggt ctgaggcagg ctggaccag 300

<210> 1123
 <211> 283
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(283)
 <223> n = A,T,C or G

<400> 1123
 aattccggtg ctgtcagatgt gttccctaca aatctcatgt tgaaacgtaa tccccagtgt 60
 tgttggaggt gaggcctggt gggaggtgat tggtcatgg gggcatatcc ctcataaatg 120
 gcttggcgct gtccttgcaa taatgagtgc attttcactc tatgagttca catggatttg 180
 gctgcttaaa agtgtatgga tttcttacct gctgttgctc tcacctgcg atgcnntag 240
 tcccncttt gccttctgcc ttgngtaaaa actccttgag gcc 283

<210> 1124
 <211> 300
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(300)
 <223> n = A,T,C or G

<400> 1124
 gtgagagaat tgtggagacc aactaccaca tatcattgag cccagctctt gggagcattg 60
 agatgtatag ctcagggtta cacagttcca aatcttggga aggggctttt cagacagact 120
 gtttgctttc tgctgagata aggaatgcat cactctgcca gagtatgact ttttacaatg 180
 agacatatgc agctttatct aataatctgc atatgtctca ttgtaaaaga tgaanntgan 240
 nnanacatgn aacaaacann gaaaanatnn gnnnnncngtn aaangttaac ggaccatgca 300

<210> 1125
 <211> 300
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(300)
 <223> n = A,T,C or G

<400> 1125
aattccgttg ctgtcgtga cttgcttgag agttctgtca gacttttctt tttaaaaatt 60
taacatgatt gcttttctca attttggaga agatgtttta atagtctgtg tgttaactttt 120
aatagttttg tgtatcattc aacttttttt cttgcagcac cgaggcacat ttgaaaagat 180
ggaacngaag tcnnngtggg taccgctggg ngaatataa nagcantttc agctgtgcgg 240
taatggcna ntnngnnnct tanctctgag nngtctngct ctagagatac nacttttgac 300

<210> 1126
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1126
aagttgtggc aaaggaaact atacttttca tttttaaaaa tgtaaataga aaagttttta 60
acgggcatat nggncaaaaag natakgtttt aacgattttt aangatcaaa atgtggcacn 120
gctggtacnt tttatcttgc tgactgcncn catatttntn nagcannctt nctgtncnna 180
gnatgacttn accggctctn taactangat atacttcngg gggganaaaag ctgtgatact 240
atagctaata aatnccact anagnacac tgaagattta aacacaagca ttcataagat 300

<210> 1127
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1127
aattccgttg ctgtcgagcc cagggtcccag cggaatgggc ctctctgttc agtaggatcc 60
ccctcctgct gagtgggttc tggcatgttt ctgttcaacg cttttccatc tgtaggatcc 120
ttattctgta tttatttgtt tttttgggtt tttttatttt ttgagatgga gtctcgtctt 180
gtcggcccagg ctggagtgcg gtggcacgac ccagctcgc tgcagcctct gcctcccagg 240
acgaggggaga tcctcccacc tcagccttcc acgtagctgg gactacaggc atgcaccaca 300

<210> 1128
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1128
gccctgtttg cctataagat gtcacgggtg cagatgatgt ttgggggtcaa tttcttctcc 60
tgctcttca cagtgggctc actgctagaa cagggggccc tactggaggg aacctgcttc 120
atggggcgac acagtgagtt tgcgtcccat gccctgctac tctccatctg ctccgcatgt 180
ggccagctct tcatctttta caccattggg cagtttgggg ctgccgtctt caccatcatc 240
atgaccctcc gccaggcctt tgccatcctt ctttctctgc ttctctatgg ccacactgtc 300

<210> 1129
<211> 261
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(261)

<223> n = A,T,C or G

<400> 1129

aattccggtg ctgtcgatga aattcagtat aaaattgaat agaagtaatg ttaatggata	60
atcttgtctt attcctgggc tcagagagga agttttttaa tattaatat gacatacatt	120
gtttgattgg gactantcag caaaatcctt tatcagattt attaagctcc ctttgtttnt	180
taatttatta tggtcctnnn atttntgant ntgnatngan tttatcncan atattctgtt	240
aatnannngt tntttncnnn a	261

<210> 1130

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1130

aattccggtg ctgtcgagaa atggaagaac gtgaaaaaag aaagataatt gctgaagaaa	60
agcacaagga atgggttcag aaaaagaatg agcaaaaaag aaaagaaaga gaacaaaaaa	120
ttaataaaga aatggaggaa aaagcagcaa aggaactgga gaaagaatac ttgcaagaaa	180
aagcaaaaga aaaatatcaa gaatggttaa agaaaaaaa tgctgaagaa tgtgagagga	240
agaagaaaga aaaggaaaaa gaaaaacaac agcaagctga aatacaggag aaaaaggaaa	300

<210> 1131

<211> 256

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(256)

<223> n = A,T,C or G

<400> 1131

aattccggtg ctgtcgagct gcaccatcac tgcgtatccc tgtgactcct accaggatta	60
taggaatggc aagtgtgtca gctgcgggac gtcacaaaaa gagtcctgtc ccgnttctgg	120
nctattatga tncagttggn aagncngttc agcennaagt gcctaataag nnngcnancn	180
cncattaaat gcnttgcgct nnctgcncag ctnagcaagc ngntaacntg acntgccanc	240
tgtatnaatg aancng	256

<210> 1132

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1132

aattccggtg ctgtcgacac attcgggctt tagaaaagga ggaagaagaa gaaaaacaga	60
agagtttgct gagagaaagg agacgacagc gaaaaaatag ggaatctttc cagatatttt	120
tagatgaatt acatgaacat ggacaactgc attctatgtc atcttggatg gaattgtatc	180
caactattag ttctgatatt agattcacta atatgcttgg tcagcctgga tcaactgcac	240
ttgatctttt caagttttat gttgaggatc ttaaagcacg ttatcatgac gagaagaaga	300

<210> 1133

<211> 265

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature
 <222> (1)...(265)
 <223> n = A,T,C or G

<400> 1133
 aattccggtg ctgtcgcaag gtggtacctc tatgaggctg caagaaccac aacgtagata 60
 cagtttagat ggtaataccc aagtccttta aaatatttgg aangcccaan aaggatggaa 120
 tncanataat nctcanatag tgaananaan cagtnnnann nntncnntan tatatntnt 180
 gnnattcttt ntngcaacnn nttcnctctt tncntnnata gnaaantnnc tatangnttt 240
 nngttntna tannnnntaa tnatt 265

<210> 1134
 <211> 293
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(293)
 <223> n = A,T,C or G

<400> 1134
 aattccggtg ctgtcgcttt gcaacctacc tgacctggc ttgctgttct ggaccagga 60
 ggcatttccc ctggaacctg atttctctga ccgtctttac cctgtccatg gcctacctca 120
 ctgggatgct gtccagctac tacaacacca cctcgtgct gctgtgcctg ggcattcacgg 180
 ccttgtgctg ctccagtcacc gcttcagctt cagaccaagt tgcacttcac ctccgtccag 240
 ggcgggcttt tcgggttttt natgnatttt ttcttttnang gaattnatct ggc 293

<210> 1135
 <211> 300
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(300)
 <223> n = A,T,C or G

<400> 1135
 ttgaaccccc caatagagct cttgtctttt gtttgaaccc ntgattcgaa ttccgttgct 60
 gtcgctagcc acatcaccaa ataagtgaac aaacaacagc gacaaatcct ggagtagaga 120
 gtatcggttat ccagagctgc agcagtgtag tacctaaaat gttcagtgc gtaaaaatga 180
 gacatgcaaa gaaataggaa catgtgattc atacacagga aaaaagacta gaaattacct 240
 tgataaggac cagatgttga tcttagtgaa caatgacttc aaagcagcta ttataagtat 300

<210> 1136
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1136
 aattccggtg ctgtcgaaaag aagtatgact gttagtactt ctcaggaccc atctttctca 60
 ggattaaacc aggtctgaaa ctgtctccta ttccaacctc aatcccaa tcatgtgctt 120
 ttctttttta ttgttttatt ttgatgattt ttgttttgtt ttaattctgg agaattgata 180
 tcttgcctaa gcacctctta cgttggcatt attcagacat acttggcaaa cataacatta 240
 ctaagatatt tctttgtggc ttttgcttaa aacttataaa gtttagaaaa aagctaaatg 300

<210> 1137
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1137
 aattccggtt ctgtcgggtt ctccgtgttg cccaggctgg tcttgaactc ctggggtcaa 60
 gcaatccgtc cgctttggcc tccgaaagtg ctgggatttt aaaggcgtaa gccactgcac 120
 ccggtaactt tgggttcttg aattcccttc ctctcttctt tctctctccc ctacactcca 180
 ttagagaaaag ggtcttgctt tgttgcccaa gctggagtgc ggtggttggt cacaggcatg 240
 atgatcactg cagcctgggc tccagtggtc cgcatacctc agcctgccag tagcaatttg 300

<210> 1138
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1138
 aattccggtt ctgtcgggga agtccaagat tgagggggcca gatctggcaa gggcttctct 60
 gctgcatcat cacatggcag aaggcatcat atagcaagag agcaggcagg agatggatgg 120
 caatgggggc caaacgcgtt tttataacaa acccactccc ttcataaagg acagtccatt 180
 tatgagggca gagcccccat gacctaaaca tctccatttg ggcccatctc ccatcactgt 240
 tgcattggag attaagtttc caatacatga attttgggtg acacactcaa atgatagtat 300

<210> 1139
 <211> 293
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(293)
 <223> n = A,T,C or G

<400> 1139
 aattccggtt ctgtcgggaa tgaagatgat gacgcctcct tcaaaattaa gactgtggcc 60
 caaaagaagg gngaannгаа tgancgagag agaaanaaag cnagatgaag aanaagcgaa 120
 nctgnggaag ctgaaanaac tnagacgagt tagaancngg tnanaaggat cagagtaaac 180
 naaaggaatc tcaaaggaaa tttgaagann aaactgtnta atccanagtg actgttgata 240
 ctggagtat tcttcgctct gaanananaag cnnanactcc cacagntgca caa 293

<210> 1140
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1140
 aattccggtt ctgtcgggct gaagtatgga aaaactgggc ccagaccaag aatgctgaac 60
 tagagaagga tgctcagaac agattggcac ccattgggag gcgccaactg ctgcgattcc 120
 aggaagatct catctcctct gctgtggcag agttgaatta tgggctctgt ctaatgacac 180
 gggaagctcg aaatggagaa ggtgaaccct atgaccaga tgtgctctac tatattttcc 240
 tgtgtattca aaagtatctt tttgaaaatg gaagggtaga tgacattttc tccgatcttt 300

<210> 1141
 <211> 291
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(291)

<223> n = A,T,C or G

<400> 1141

aattccggtt	ctgtcgggtg	tggcgcgcac	ctgtagtccc	agctacttgg	gagactgagg	60
caggagaatc	gcttgaaccc	aggaggcaga	ggttgtggtg	agcggaaatc	atgccattgc	120
actccagcct	gggtgacaga	gcaagattct	gtctcaaaat	aaatacatac	atacatacat	180
acatacatc	atacatacat	acaactttgt	ttttcttttt	ctttcttttt	ttttttttna	240
anggnaaang	caccaccant	naaaaaacn	ttaccgaaan	ggnaaaaaaaa	a	291

<210> 1142

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1142

aattccggtt	ctgtcgggca	gtggttttctt	agatgttgac	acccaaaagca	cacgtggcaa	60
aagaaaaagc	aaagtcaaca	ccatcaaaga	tgaaagtgtt	cgtgcttcag	ggaacactat	120
caagaaagt	aaaagacaac	ccaagaatgg	gatagtattt	tgcaaatcac	atatctgtta	180
agaatcttgt	atctattcta	gctataggac	tettacaact	taataaaaaga	gaaaaccac	240
ctgggtgcac	tggctcacgc	ctgtaatccc	agcactttgg	gaggccaggc	ggacggatca	300

<210> 1143

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1143

aattccggtt	ctgtcggcac	cttcgtgtcc	cactactcga	gccacctgaa	gcggcacatg	60
cagacacaca	gcgagagaa	gccgttcgc	tgtggccgct	gcccctacgc	ctcagcccag	120
ctcgtcaacc	tgacacgaca	taccgcacc	cactctggcg	agaagcccta	ccgctgtccc	180
cactgcccc	ttgcctgcag	cagcctgggc	aacctgaggc	ggcatcagcg	taccacgca	240
gggcccccca	ctcctccac	tactcgagcc	acctgaagcg	gcacatgcag	acacacagcg	300

<210> 1144

<211> 290

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(290)

<223> n = A,T,C or G

<400> 1144

aattccggtt	ctgtcgccag	tgagtacctg	caaaaatgag	ttgtcacaga	aattatgac	60
ctctatttcc	tgaacctgga	aatgatgttg	gtccaaagt	cgtgtgtgta	tgtgtgagtg	120
gggtgctggn	atacatgtgt	acntatatgn	ataaanacna	tnnacnntan	atctaacnta	180
tnanencnnc	ctnctnctc	cccttcncac	gnacngccnt	ntnnnnccctc	agnatccnnc	240
tcagcctnnc	centnatgca	tencatgccc	gtcagttnt	tnccctccctc		290

<210> 1145

<211> 296
 <212> DNA
 <213> Homo sapiens

<400> 1145
 aattccggtg ctgtcgattg atagaactac tttgaaaaca attcagtggt cttatttttg 60
 ggtgattttt caaaaaatgt agaattcatt ttgtagtaaa gtagtttatt ttttttaatt 120
 tcaagtgatg taatttaaaa cctaagttgt gtttcaaaac agcaccaaaa ctgtattgta 180
 ttttttttgc tgtaattaac tgtataatgt aaacctaatt attttatcat ggtttaaatt 240
 ttttgcatat ttgcttaatc ttatgctgct gattcttcta actgaatttg cagatt 296

<210> 1146
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1146
 aattccggtg ctgtcggtga aagtgtacta aaggaagtat accaagcctt taatcccaaa 60
 gcagtggctt tacagctggg agctgacaca atagctgggg atcccatgtg ctcccttaac 120
 atgactccag tgggaattgg caagtgtctt aagtacatcc ttcaatggca gttggcaaca 180
 ctcatcttgg gaggaggagg ctataacctt gccaacacgg ctcgatgctg gacatacttg 240
 accgggggtca tcctagggaa aacactatcc tctgagatcc cagatcatga gtttttcaca 300

<210> 1147
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1147
 aattccggtg ctgtcgggga agttaagact tataatcacc catagctttc aaacagaaca 60
 cacatagcat ctccaccttc attaccacca tcaccaccac caccacctcc atctccacct 120
 gcaacccag cactaccacc atgaccacca ccaccatcac tgccatcacc atcattacca 180
 tcacctccac ctctaccttc aacatcacca tcacaatgac caccaccatc accaccagaa 240
 acactgaata aaataatgaa agtgcagcct taggctgggc acggtggctc acacctgtaa 300

<210> 1148
 <211> 285
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(285)
 <223> n = A,T,C or G

<400> 1148
 aattccggtg ctgtcgatgt tggggctggc aaaacgagtc ggtgcccgtc tgctcctggc 60
 ctccacatcg gaggtgtatg gagatcctga agtccacctt caaagtgagg attactgggg 120
 ccacngaat ccaataggac ctnggtcctg ctacgatgaa ggcaaactg ttttanannc 180
 catgtgctat nctncttga antttanngc gttnattnnc tannnttttn ttannnttna 240
 nntnnnnatn ncanntnnac tnatnnntgn agnatntgtc tttat 285

<210> 1149
 <211> 280
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(280)
 <223> n = A,T,C or G

<400> 1149
 cggccgcagg aattttttcca gtcaaaagca tattcgaggg actaaaagga catcaagagg 60
 gatacttcag tcaaatgata atcagctatg aaaaaatacc ttcttacaga aaaagtaaata 120
 ctcttactcc acatcaaaga attcataata cagagaaatc ctatgtttgt aaggaatgtg 180
 ggaaggcttg cagtcattggc tcaaaacttg ttcaacatga gagaactcat acagctgaaa 240
 aacactttga atgtaaagaa tgtgggaaga nttatttaag 280

<210> 1150
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1150
 aattccgttg ctgtcgcaag ttttcacaag aggccgggca tgggtggctca cgcctgtaac 60
 cccagcactt tggtattgt tttttgttt ttttaatttc ttgtagatac gaggttttgc 120
 tgtgttgccc aggttagtct cgaactaact cttggcctca agtgatcctc ctgcctcggg 180
 ctctgaagt gctggatata cagtcgtgag ccaactgtacc tggccagaac tcctcttcta 240
 gggggaagtc aaccacaatg taggaagtca gattgtccca agtccactat gctgtaagga 300

<210> 1151
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1151
 aattccgttg ctgtcggcag gggcctcccc ggtcgccccca gcaggccag gcacataggt 60
 gccagagat ccttggttc tgatcgccc gaagactaag agcttttagt ttggtccaga 120
 aagcattttc aaggagctgg tcaagcatgg ctttagcaga taagagactt gagaacttac 180
 agatctacaa agttcttcaa tgtgtgcgga acaaagacaa gaagcagata gagaagctga 240
 ccaagcttgg ataccctgaa ctaatcaatt atacagaacc cattaatggg cttagtgtt 300

<210> 1152
 <211> 272
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(272)
 <223> n = A,T,C or G

<400> 1152
 aattccgttg ctgtcggaga tgtggaatga ggctgagaag caactgcaga acagcttgat 60
 ggacttttga gaaccgtgga aaatgaaccc aggagatgga gcattttatg gccctaaaat 120
 tgacataaaa atcaaggatg ctattggcag ataccatcaa tgtgtacaa ttcagctgga 180
 ctccaactg cctattagat ttaatctcac atatgttagt aaggatggg atgataagaa 240
 gagacctgtg atnattcatt canctcatt tt 272

<210> 1153
 <211> 262
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(262)

<223> n = A,T,C or G

<400> 1153

aattccgttg	ctgtcggctc	cgaggaggaa	gaagctaact	attggaaaga	tctggcgatg	60
acctacaaac	agagggcaga	aaatacgcaa	gaggaactcc	gagaattcca	ggaggggaagc	120
cgagaatatg	aagctgaatt	ggagacgcag	ctgcaacaaa	ttgaaaccag	gaacagagac	180
ctcctgtccg	aaaataaccg	ccttcgcgatg	gagctggaaa	ccatcaagga	gaagntngaa	240
gagcannctc	tgaaggntac	cg				262

<210> 1154

<211> 272

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(272)

<223> n = A,T,C or G

<400> 1154

aattccgttg	ctgtcggaaa	ggttatcaag	acacagaact	tggcagctct	ccttcgatgcg	60
attgccagac	gtccaaaggg	gcagcaacta	gcatgggatt	ttgtaagaga	aaattggacc	120
catcttctga	aaaaatttga	cttgggctca	tatgacataa	ggatgatcat	ctctggcaca	180
acagctcact	tttcttcena	ggataanttg	cngangntna	tctatttttt	tgaaacntct	240
tgaggctcnn	ngntnntaat	ntnnatattt	tt			272

<210> 1155

<211> 288

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(288)

<223> n = A,T,C or G

<400> 1155

gctgcaataa	acaagttaac	aacaacaatt	gcattcattt	tatgtttcag	gttcaggggg	60
aggtgtggga	ggttaacccc	nnccccccnc	nanccgcctt	nctnncnac	cnaccctacc	120
acncntecn	cctcctcccc	ttctegnnn	nnccccctc	ctcnnntatt	ccccnccn	180
teccttnncc	caatcnccg	nacttgnnc	nngecnan	nnnctectn	tecnncn	240
ntcatctent	cacccccctn	cctctnct	aaccncccc	tetccaat		288

<210> 1156

<211> 292

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(292)

<223> n = A,T,C or G

<400> 1156

aattccggtg	ctgtcgtgcc	tccaagatgg	tgagtcttct	tgctggtga	gggtgggggt	60
tcgggtgcan	antatnatan	agtgacctta	tnatacnntg	angacnnccn	agagactctc	120
acnncan	cagttccagg	cnttcaaacc	gaanacaatc	cannaaaagn	ggaacatacn	180
gaanaacntt	ctantataac	nnaactantn	actactnata	gaaaatattc	ntgactaggt	240
cccncanac	cttctnactt	ccnatanaaa	nagagagntc	ttaaccttta	aa	292

<210> 1157

<211> 262

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (262)

<223> n = A,T,C or G

<400> 1157

aattccggtg	ctgtcgggcg	ctttcaactg	tactgctgca	gctttaagta	ccttaaagct	60
tctcctgtga	acttcttagg	gaaatgttag	gttcagaact	aaagtgtttt	gggtggggtc	120
tatttctnn	aattntctat	nnatnnncct	ntnanannta	aanttaantt	annaatctnn	180
cngtntttan	ttanaanatn	nantntntn	atctccnngt	antatanntt	tnntnncata	240
tgttnnatann	ntaanntanc	ga				262

<210> 1158

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (300)

<223> n = A,T,C or G

<400> 1158

aattccggtg	ctgtcggtag	gattataaat	ggtttaaaat	acgtattctc	aaacctcatt	60
ttcagcatat	aaatttttaa	gaatcagtgt	ttaaaggtag	gtgaaaccat	ttgctagatt	120
tttgccttag	ttttttttt	ttaatttaaa	aannttannt	gttttttaga	nannttnnaa	180
tgncntgcc	tactggcna	aacgnttca	gngnnggatc	nactgtttta	gangatctcc	240
gggaanaagc	cctnanantt	tganaggagc	tgntntnggt	gttcnatnct	nccccagttt	300

<210> 1159

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1159

aattccggtg	ctgtcgcaca	cagccccctc	gcaaagggtg	ggaaacttgc	aaggaattta	60
aggaaatctc	tgttcagtca	ttagccagcc	actaaactaa	ctgagcagat	ccttcagtga	120
tcacacacaa	caaagaatac	agactttaca	gacttagtcc	tagaaaatca	ctacacaaac	180
agcaacaaca	atgcacctgg	gactaagggg	gaggagatga	gttccagagt	tggtatatta	240
tttaaatgtc	tagttttcaa	taaaaacaat	tataagacac	agagcaaaac	tagaaagtat	300

<210> 1160

<211> 300
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(300)
 <223> n = A,T,C or G

<400> 1160
 ctggtgttag gggtcttggg ttttgggggt tggcagagat gtgtttaagt gctgtggcca 60
 gaagcggggg gaggtgtggg aggtttaant cnnccacnac catattcnaa acnnngtttn 120
 anccnnttct tnnacnaaa cctatatattg anccancct ntgnacnngn cntncttgan 180
 tcacntnaca tggtanccct ncnaccncct acncatanca ntncnttanc ntnantcncc 240
 nttacttntt nccnccacc ctgnnnncna ctnnccacn nttcagncct tattctctcc 300

<210> 1161
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1161
 aattccgttg ctgtcgataa aatgggaatc ttcttgggtat tttatgtgta ttgtaagtag 60
 cagttaaatt atttttttaa aagcaatttc agttttaatc actgaacaaa agaaacaggc 120
 aacattcact tctgtagtat gggttccacc tatctctaac accactatta aggtacacca 180
 gtgttaaggt acattaataa ctacacaaaa ttttatttta agagaacact tagcagccta 240
 tgatagtttt caataaaaatg ttgcctctct ttcggattct cactaacttt tgggtactatt 300

<210> 1162
 <211> 291
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(291)
 <223> n = A,T,C or G

<400> 1162
 aattccgttg ctgtcgaaga acttcatggg cttcaataat gtctagaaaag taaaatgaaa 60
 gaggaatggt accatccccca gctgcectta tttccagaga accagacgtt tggntggnna 120
 gnggatnnan aancgctnnn cntancaggn tactcgatna aggcaaggta aatatngctn 180
 cannagtgcc ctctncttc ncangagtc ctcnnatnag cacccttatg ntagggntn 240
 nnnntnnnaa cnttccngnt ngaccanann ttnaccnctg nggccgttag g 291

<210> 1163
 <211> 284
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(284)
 <223> n = A,T,C or G

<400> 1163

aattccgttg	ctgtcgggta	gaccaccatt	tacatatgca	tctttaatta	ggcaggccat	60
tctcgaatct	ccagaaaagc	agctaact	aaatgagatc	tataactggg	tcacacgaat	120
gtttgcttac	ttccgacgca	acgcggccac	gtggaagaat	gcagtgcgtc	ataatccttag	180
tcttcacaag	tgttttgtgc	gagtagaaaa	cgttaaaggg	gcagtatgga	cngtggnatga	240
agtagaattc	naattaccan	ggtnacanna	gatctttggc	aacc		284

<210> 1164

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1164

aattccgttg	ctgtcggcaa	ctgtgacctg	gagcgctttg	ctcaggtctt	ggagaaggaa	60
ctgccccgtg	atgcgcgccc	catcttcctg	cgctcctg	ctgagctgca	caaaacagga	120
acctacaagt	tccagaagac	agagctacgg	aaggaggggct	ttgaccggc	tattgtgaaa	180
gacccgctgt	tctatctaga	tgcccagaag	ggccgctacg	tcccgtgga	ccaagaggcc	240
tacagccgca	tccaggcagg	cgaggagaag	ctgtgattcc	ccccatccct	ctgaggggccg	300

<210> 1165

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(300)

<223> n = A,T,C or G

<400> 1165

tataagctgc	aataaacaag	ttaacaacaa	caattgcatt	cattttatgt	ttcagggttca	60
gggggaggtg	tgggaggttt	tacngacgt	aaagaaaacc	cntatggcaa	gnatgactat	120
aanagnccat	tccnctgca	nnccaaaaac	taacgcagnt	atgccnagaa	tgngactgtc	180
tggnctnaac	ccagcgnnct	gcanacngat	gtacngaaga	ttttatgaaa	tgcatngana	240
ctacctgaaa	aatcacagac	nttctataag	gagctnaacn	gtttncgana	ggccgtctag	300

<210> 1166

<211> 294

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(294)

<223> n = A,T,C or G

<400> 1166

aattccgttg	ctgtcgtacc	ccagtaccag	tgaggatata	ttgggaatta	cttggcaaag	60
tcctgggtacc	tgggctagct	tggttccttt	ccaagtgtca	tatangacnc	nnaatntacc	120
ggccanantc	cnatantacg	gntngantat	nttgtgntgc	nganccattt	tcacaattac	180
tatgtnatnn	antganaatg	nttnagtnaa	aaantncata	nctgnaanac	atngaanttn	240
aattggggcca	tcatntacga	nttgantcga	antatttagg	gnactttata	aatt	294

<210> 1167

<211> 260

<212> DNA

<213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(260)
 <223> n = A,T,C or G

<400> 1167
 aatccgttgc tgtcggaaac gctgccagat catcatcttt cagggtggtct tcctgggcct 60
 cctggctggc ctggtgggtcc tcttctacgn ctatcctgtg cgttgcgnagn agttgtnnnt 120
 tnnctnatgg cnggtattct gtntntnttn ntttttttn ntttnngnag ccnnntgatn 180
 atgtttntnt tngttntnt gnagnntnnn agttttggta ggtttntngt cngnttcnna 240
 gntnnattct ntctantgnt 260

<210> 1168
 <211> 293
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(293)
 <223> n = A,T,C or G

<400> 1168
 aattccgttg ctgtcggaaag aagttgaagc agaagtgaaa gcagctgcag agatatcaat 60
 gggaacagag gtttcagaag aagatatttg caatattctg catctttgca cccaggtgat 120
 tgaaatctct gaatatcgaa cccagctcta tgaatatcta caaaatcgaa tgatggccat 180
 tgcacccaat gttacagtca tggttgggga attagttgga gcacggctta ttgctcatgc 240
 aggctctctt ttaaatttgg ccaagcntgc agcttctacc gntcagattc ttg 293

<210> 1169
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1169
 aattccgttg ctgtcgattt aatatacaac ttggtttaga ataaatatct aacaaatgta 60
 taattgaatg gcagagacac tgacacttca tttgataggt cattgtcctt gccagtttg 120
 ggactgagaa aataatttga tagttgggtcc aatgtgtgat acctatgaaa gaaccgagcc 180
 tttaatattt tcatctttat gttacagcca ctgtgtcgaa ctcccagcag gcttaccagg 240
 aagcatttga aattagtaag aaagaaatgc agcctacaca cccaattcgt cttggtctgg 300

<210> 1170
 <211> 292
 <212> DNA
 <213> Homo sapiens

<400> 1170
 aattccgttg ctgtcgccaa gggctcacta agccagaggc caaagtgccc cctcccgttc 60
 acctaccacc caagtccctca tgccctccga gggctggggg aggaggggct caaggaaggg 120
 gggttccatg tacatatatta taccctctt cacatagccc caagacctt tgtacatttt 180
 tacaggggtg cccctcccaa cagttccctt cctgggttaat taaacctca gactgggtgct 240
 gtgttcctag cctctggcct ctctgtgggg aaaggggact gcaaggggaa ga 292

<210> 1171
 <211> 263
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(263)

<223> n = A,T,C or G

<400> 1171

aattccgttg	ctgtcgggca	cagtagttta	ccctgttata	tgtgtttcat	aatgggggct	60
gtatgaatat	tatttataac	taataaaatg	ttgccagaat	tatactaaac	tgttggatga	120
gattaggaga	tcagaggctg	gaccttctct	tgataatgct	tgttttgtta	cagntattan	180
gaaatnnttt	gtatgtgatt	nntttntnn	tcngnatngt	tnatgttnag	atnggtnana	240
nnnncttttt	nantngctga	att				263

<210> 1172

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1172

aattccgttg	ctgtcgtctt	ttctgggtgac	tctctggatt	ttgaaaaaca	gactctcctc	60
cctcaatagt	gaagtgtcca	ccctccggaa	cacaaggatg	ctggcattta	aagcgacagc	120
tcagctgttc	atcctgggct	gcacgtgggtg	tctgggcata	ttgcagggtg	gtccggctgc	180
ccgggtcatg	gcctacctct	tcaccatcat	caacagcctg	cagggtgtct	tcctcttctt	240
ggtgtactgc	ctcctcagcc	agcagggtccg	ggagcaatat	gggaaatggt	ccaaagggat	300

<210> 1173

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1173

tagatcaagc	tacttgttct	ttttgcagga	tcccatcgag	ccggcgcgag	tgtgcgtgtg	60
tgtgcgtgtg	tgtgtgagag	cgcggtggag	ggggggggacc	aactgcttca	cactttcaac	120
actgcactga	agagggagag	cgagagagag	actggagacg	cacagatccc	cccaaggctc	180
cccaagccta	ccgtcccaca	gattattgta	cagagcccca	aaaatcgaaa	cagaggaaac	240
gaacagcagt	tgaacatgga	cgaagggaatt	cctcatttgc	aagagagaca	gttactggaa	300

<210> 1174

<211> 299

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(299)

<223> n = A,T,C or G

<400> 1174

aattccgttg	ctgtcgttgc	acccaaggct	gagcctgcc	tcctccctgc	cacccggaac	60
gagcccatcg	ggctgaaggc	ctccgacttc	ctgccgcng	nganaatncn	cnnnnnngcn	120
natctggcnt	acaangatga	natngacgtg	ataggtgnta	ncannaacan	cataganana	180
aactgnttnt	ntgtangnng	anngtnttac	ntnatccgnt	ncatnnaann	tngaatacnn	240
atcnntccn	annaggaacc	gtcttgagaa	gatngcatga	nnegaatcct	actcttcga	299

<210> 1175

<211> 294
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(294)
 <223> n = A,T,C or G

<400> 1175
 aattccgttg ctgtcggccg cgaggcggca atgccggctt ggggcttgga gcaacgcccc 60
 cacgtggcag ggaaacctcg tctctataaa aaaaagaata caaaaattag ttgggcatgg 120
 tagtgagcgc ctgtgaggct gcttgtgagg ctgagggtgg aggatccctt tagtccagga 180
 gttcaaggct gcagtggct gtataatgcc actgcagtcc agcctgngtg acagttnac 240
 cctgtctnctn natctanatt ttntgnaaag nanacnttaa ggntangatg aaat 294

<210> 1176
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1176
 gagcattcca tcgtcttcat tagctcttct atcctctgtc ctgtcctcta gcaagacacg 60
 ctggatgcag atatccacat agagacggag gatcatggca tgtataagta catgtcttcc 120
 cagcacctct tcaagctgtt ggactgtttg caggaatccc attcattctc aaaggccttc 180
 aactccaatt acgagcagcg gactgtcctg tggcgagcag gtaaggccac acagcagata 240
 agatagatgg ccacactggg caccttcccta aaacattaaa gtgcttgga aatgcccaaa 300

<210> 1177
 <211> 282
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(282)
 <223> n = A,T,C or G

<400> 1177
 aattccgttg ctgtcggaaa tgtggaagct accttttagga acatggagaa tttccaaacc 60
 aacaggcaaa ggaaaactaa cgcacaaaaa tgacattctg aagatgcagg tttcagccag 120
 gcgcgggtcga gagaanatan aaacgggtcaa ttaccnaca tatnctgagg ctgagaaata 180
 gtgctnagat ggaaganatg aactnctnct ctctgggtcga ccatnctnan ttctnacct 240
 tnnngncnna ctgtanatga anagggttt nntcttctgt at 282

<210> 1178
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1178
 aattccgttg ctgtcgtcct ctctctggcc cagaagatct tcaatgacaa cagcctcagt 60
 atggaggcct tccagcaccg ttctgtgtcc tggctgcagt tcaacaaggc cattctctctg 120
 ccctttggac ctcccacccc caagctcttc atccctgggg cactcagggc ctgtcagcc 180
 tccatgcagg gaccttccac tggattctcc acagtgcctc ctcaggtcct ttaggaaggc 240
 ctgtcatgga ccaggaggga aaaacccag gcttgggggt tggctctgga gatgcgttct 300

<210> 1179
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1179
 atgcccccg ggccctggcc cagaccgccc cccccggccc gggcaggaag gagctgaaga 60
 tcgtgatcgt gggcgacggc ggctgcggca agacctcgct gctcatggtg tacagccagg 120
 gtccttccc cgagcactac gccccatcgg tgctcgagaa gtacacggcc agcgtgaccg 180
 ttggcagcaa ggaggtgacc ctgaacctct acgacacggc cgggcaagaa gactatgacc 240
 ggctgcggcc cctgtcctac cagaacaccc acctcgtgct catctgctat gacgtcatga 300

<210> 1180
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1180
 aattccggtg ctgtcggcta agacaatctc agcttttctt agacaatctt ctatctcaaa 60
 cttcagacat tccagaattg tcatgatgtt tacactgtct gagttaaaaa tcctgttcaa 120
 gaaaaaaaaa agattttgta tcacttctta aaaaggaata ttcatagcac ttgtcacaaa 180
 tagaaggcaa ccatgagata atacaagcca gggagagget tgtattacat gacaggtgta 240
 attagtctgc tgagccagct ttaccaatg aagggcataat gtgttagaga gattagctaa 300

<210> 1181
 <211> 263
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(263)
 <223> n = A,T,C or G

<400> 1181
 aattccggtg ctgtcgggtt tgggccagaa agacttccag tttggagtcg tttgctgcgg 60
 ggaggggaatg aatgggcgct gggaacacgc ccgcgaggtg gggacgcgcc ggccgtatcn 120
 aggncttag nnnagagaacg gccnacngnc atctnnttca tgcncntnn naacntnact 180
 nntagnnnac tttnnnnegt gactnnccct tantgtaaaa tannttntnc nngacncagc 240
 cganttcac canntctttn ngg 263

<210> 1182
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1182
 aattccggtg ctgtcgggtt aagcctgggc aggtgggtgta caagtgcccc aaatgctgca 60
 gcatcaagcc cgaccgagcc caccactgca gtgtttgtaa gcggtgcatt cggaagatgg 120
 accaccactg tccctgggtc aacaactgtg taggcgagaa caaccagaag tacttcgtcc 180
 tgtttacaat gtacatagct ctcatctcct tgcacgcct catcatggtg ggattccact 240
 tcctgcattg ctttgaagaa gattggacaa agtgcagctc cttctctcca cccaccacag 300

<210> 1183
 <211> 300
 <212> DNA

<213> Homo sapiens

<400> 1183

aattccggtg	ctgtcgaaga	gacagctata	tttgtttcaa	tgtgtacctc	tccttctaaa	60
ctcagttctt	aagcatatag	tatctttata	gctatacacc	tagtgtctat	cagaccctaa	120
actatggtag	gccctcaata	catttttattg	ttataggtag	atagataggc	atgagtaggg	180
caggagaggg	ctctccctcc	accactaga	aatgtcaagt	gatgttttaa	aaattgtcac	240
actgcctctc	agaaaatgat	aattcagcaa	ccggggagag	aatcttctga	tggtccacac	300

<210> 1184

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1184

aattccggtg	ctgtcgccct	tccaggctct	tccaactttg	ttaatttggt	ctactgcctg	60
ggagattcct	ttgactttat	ctttttacct	ttatattgaa	ggttttcagc	tgtcatattt	120
ttaatttctg	gtagttttt	cttgtctatt	ccttaatttt	ttctttggag	acagggtttc	180
actctgtcac	ccaggtttgt	gacagcctta	ctgcagcctc	aacctcctgg	gcccaagcaa	240
tcctcccact	tcagcctcct	gagtgggttg	gaccacaggt	gcataccacc	acacgtggct	300

<210> 1185

<211> 272

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(272)

<223> n = A,T,C or G

<400> 1185

aattccggtg	ctgtcgacaa	agtcgcagat	gcatacaaga	ctttttcaag	aaacacatac	60
agtacaaatt	cttagatgaa	gactttgtgt	tcgatataata	cagagacagt	aggggggaagg	120
gggggaagnt	tcntgnnacn	tctttgntna	tcctnnnnnn	ncatgattta	ctactttaan	180
gnngnnttgn	tggntantng	naccatgnnc	attnccttnan	ngtcnngntt	ttcttantaa	240
ntcgnntntt	nentnnactg	ncctaanatn	nt			272

<210> 1186

<211> 288

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(288)

<223> n = A,T,C or G

<400> 1186

aattccgctg	ctgtcgccca	aactaaaacc	ttatctgtct	gcattttgaa	tgcattttgg	60
tcaaaaagtat	acgtttttaaa	gattttttaa	gataaaaatg	tggcncaacn	gggttttttt	120
gctnnctgat	ntangnccct	atcnntaann	taatctttct	ctccnnancc	anantncacc	180
antatggtnn	aactannnnnt	naactnacn	tgaannntta	attngnnnnt	ttcnnaaann	240
ntttcnaatn	taaatnncta	nngnttncaa	ctngctcggn	ngaaattc		288

<210> 1187

<211> 261
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(261)
 <223> n = A,T,C or G

<400> 1187
 aattccggtg ctgtcggcctt gggattcttt tatctcctgt ggtggataaa tctgccttaa 60
 atatcaatgt aacttggggg ctgggggctt gttttgggtg ccaancncat ctcttttangg 120
 acagnntaaa tgnngattata tctcangnac agttggacct tcagacctaa cnntnaccat 180
 tnnctttacc tgtntaantc tgaaatgtaa tangnagat aactgcnaga tgccagctnt 240
 cctaantnnc aaagccttnc a 261

<210> 1188
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1188
 aattccggtg ctgtcgaaac caaggacaca gtcagcattt aacaaaaagg aatctgcac 60
 tcagtcagaa ctgtattgca tttgcttctc tctggattac cttgaagtta ctcccccttc 120
 ccaagcagtg aaacgatgga ccaaaggggt aaatctcttt gaacaagaaa ttattctggt 180
 gcctattcat cggaaggtac attggagcct ggtggtgatt gacctaaagaa aaaagtgtct 240
 taaatatctg gattctatgg gacaaaaggg ccacaggatc tgtgagattc tccttcagta 300

<210> 1189
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1189
 aattccggtg ctgtcgcgaa tggtagcccc ctggacggaa gcgcccagaa ggtgccgagt 60
 cccgatcccc agcccagcac tcgcggcac tcgggccttt gccactattt tggtttttat 120
 gatttttaac aaggagcgtg aaagcttcag ctgcgctga gccacgtgg gcagcgggac 180
 ggcataagggg tggcccccat agaagccggg ctgggggtgg cctccgtagg gttgtctggt 240
 gtttccacgt ggggtgctaa gaagcaaggc ctggctgggt gcggtggctc ccgcctgtga 300

<210> 1190
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1190
 aattccggtg ctgtcgggca aggaaggatt cttctgaagc tttcggagga agcatggccc 60
 ggccaacacc ttgatttctg atttctaaac tactcagccc gctgcaccc aggtgaaata 120
 aacagccttg ttgctcacac aaagcctgtt tgggtggtctc ttcacatgga cacatgagac 180
 acttggtgcc gaagacccag gtcagtgaga ctcttcagg agaccagtcc cctgtcctca 240
 ccctcactcc gtgaggaaat ccacctatga ccttgggtcc tcagaccaac cagcccaagg 300

<210> 1191
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1191

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aattccgttg ctgtcggttt accagctaca taggataggg cctaacaaag acttactagc      60
acaaagcaag gaggtttcaa ggaagttagt ttataaaaga aactattatt ttttaacact      120
tatgatttat tctttaacaa gaagggaac tttgaagagg aacttttact ttccacattg      180
aacaaataag taagaaaaag aaagggaac ttccccaggg ctgaaaggaa attttcaggt      240
catgccatta ttatcagaat taataagacc catgcatcgt ggaaaaactga gaacaccacg      300

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<210> 1192

<211> 260

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(260)

<223> n = A,T,C or G

<400> 1192

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aattccgttg ctgtcgccgg agcgcacccg gccggaagcc gctgtcgggg agccggcggt      60
ggggctggac gcaggtgcaa ctgacatggg tgaaccccag ggatccatgc ggattctagt      120
gacagggggc tctgggctgg taggcaaac catccanaag gtggtnntna atggagttgn      180
actttntgga taggatttnt ntgttagttn cnantnttac tntgntntaa tctttngnan      240
tnttnggann ttttttgttt                                     260

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<210> 1193

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1193

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aattccgttg ctgtcgatct caccctggga agatgtggtg cccctccag ggctctggag      60
gatggatgcc tccccaggg gctctccaag ctgggcattt gggcctgggt gatgccaacc      120
tgataaacct gtggcccagc attgactgtc caccagcct tgctgttagg caccatgact      180
ccaagatgaa gatgtggtcc ctgcccttga gtgacagccc agggacttaa tgtggccatc      240
gggcatcaag cacaaggcca tgcaggtgat gatacgtcgg aatagaggca ccagccctgg      300

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<210> 1194

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1194

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aattccgttg ctgtcgggaa gctcgatgtc ccaatattgg agagtgttgg ggaggtggag      60
aatatgccac cgccacagcc acgatcatgt tgatgggtga cacatgtaca agaggttgca      120
gattttgttc tgtaagact gcaagaaatc ctctccact ggatgccagt gagccctaca      180
atactgcaaa ggcaattgca gagtggggtc tggattatgt tgtcctgaca tctgtggatc      240
gagatgatat gcctgatggg ggagctgaac acattgcaaa gaccgtatca tatttaaagg      300

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<210> 1195

<211> 265

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(265)

<223> n = A,T,C or G

<400> 1195

aattccggttg	ctgtcgggttg	agggttgccgt	gagctgagat	tgcgtcactg	aactccggcc	60
tgggtgacag	aaggaggctc	tgccttaann	ganaaaaaan	cntcntggaa	ctgttgnang	120
gataaaatna	aggattgagg	nattgaggna	ttgntgaent	gnacntcnag	gngtcnnatt	180
tttttaaang	ggggggcncg	naccgggncc	gnntncntnt	tntttcnagg	cagggtgggn	240
tgngnnaann	caanaggnat	tcctnt				265

<210> 1196

<211> 257

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(257)

<223> n = A,T,C or G

<400> 1196

aattccggttg	ctgtcgggtga	atgatgatga	tgccattggt	gctgcttcga	agtgcttgaa	60
aatgggtttac	tatgcaaagt	tagtgggagg	ggaagtggac	acannttnca	ntgannaaga	120
tgntnaagag	cccatnccn	agaccanctt	atntnatacc	tnttgancn	ttngatntc	180
atntnangtn	tcannatntg	ccntnnnctn	ngccaenngg	cnntatgent	tntnngncna	240
ttntttntnc	ntcatct					257

<210> 1197

<211> 286

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(286)

<223> n = A,T,C or G

<400> 1197

aattccggttg	ctgtcggat	gacctgctt	tcttggtcct	gttaagtatc	tggctctgtg	60
tgtccactat	aggatttggc	tttgtgctgg	acatgggatt	ctttgagaca	ataaagcttc	120
tcctttgggt	tgcnctnata	nattgtgnat	gngcntgntc	ntntttncgt	tnnanaatnt	180
tcctttnnan	ancnggncat	ntaattnant	tnaaagggaat	nacctngcc	cnnggnttaa	240
naannanttc	ttnnanatnn	ggaacnttnt	cccccttnna	attttc		286

<210> 1198

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1198

aattccggttg	ctgtcggacc	cataggcatg	ccagacatgg	gcattggggtt	catgttcac	60
tgtcccatgt	gaccactgct	gccattcatg	tgcaccatac	tataactgc	aggattcccc	120
tgggtgggcaa	actgctgctg	ggaaaaggag	ctgtaagtaa	acaaatggta	atattacctc	180
tgggaagtac	tttagcgaca	aagggcacg	ccacagaaat	tactacaatt	gtgtcaaaca	240
ttgtataact	taagctggga	atgttagaga	aaactccctg	acagcctgtg	atccattttt	300

<210> 1199

<211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1199
 aattccggtg ctgtcgacca gacagagctt ccagagtgtc aggacatgtg tgacttagcc 60
 cagattcaga ctttagtcac aagcaggatc agcatagaca tctagctccc agcatggcaa 120
 ttctctgttg tgtctccctg tttgtattgg ctgcaggaaa gctcagagcc aagtctgcga 180
 taagctgata ctaagtgtga acgtgaagtc cccagccctg ctgctgagcc agttgctgcc 240
 ctacatggag aacaggaggg gtgctgtcat cctgggtctt tccattgcag cttataatcc 300

<210> 1200
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1200
 gggcggctcc gggcaggggg gcacgatctt aaggacagtc gctccctgaa cgcggagccg 60
 gaggagacga aggggaaggtg gagcggacgc caccgcgcga ccgggcaggc gcggagaccg 120
 gcgtgggaca gccacctgga gcgcagctgc cagaaagaag gactttgctg ctttgggcca 180
 ggatctgaac ttaggtgtaa accattgccc tggcagaggg aacctacca gtccattgct 240
 gcctgctaca agatatgaac agtaatggca catattttgg ttatgagtca ctcagtggac 300

<210> 1201
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1201
 aattccggtg ctgtcggcat cagcaggcac tgctcctcct ggagctgctc aacgttctct 60
 tcaggacctg caaacatgag aagctgacct tggacctgac ggtgctcctg ggtgtgctgc 120
 aggggcaaca gcagagccta cagcaggggg cactctccac cggctccagc cgcctgcacg 180
 acctctactg gcaggccatg aaaaccctgg gagtccagcg cccaagttg gagaagaagg 240
 atgccaagga gatccccagt gccaccacga gcccacatcag taagaagcgg aagaaaaagg 300

<210> 1202
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1202
 aattccggtg ctgtcgatgc tcccagggtc ccagtgtcac ctctcggtag agtgctctct 60
 gggccaggtc cagctgttcc cactcctcct gtgtgaatgc catagccaca tctcgaagc 120
 acacagatgc ctgaaacagg gcacttggtt ctgctcagag accccaggtc ctcatgccct 180
 cagggaggta cctgttaagg cctaaatgtt ggtgtccccc cgtaaaattc atacattgga 240
 acctaatacc cagtgaagata gtgttaagag gtgggggtctt tacaaggcaa ttaatgtcct 300

<210> 1203
 <211> 298
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(298)
 <223> n = A,T,C or G

```

<400> 1203
gaaaggcacc agtatgtgtt ttagattgat ttccctgttt cagggaaatc acggacagta      60
gtttcagctc tgaagggtata agcaaaacaa ataaaaacgtt tataaaagnt gtatctngat      120
acactgnnnt tnnacatgnn ancannttat gnnnnntant ctatgccacc tnnngtcac         180
ntnttnnann ctctancntt ncancttntt tgntncntnt cctnattegn nngtgccaag       240
agantntntn cngnagnnac cnttccttg ccaccttctt gctctgtntn tattacct         298

```

```

<210> 1204
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 1204
aattccgttg ctgtcgagca cattgaccac cacattcagg gccaggggct cagtgggcaa      60
gggctctgtg cccgtgccct gtacgactac caggcagccg acgacacaga gatctccttt      120
gaccccgaga acctcatcac gggcatcgag gtgatcgacg aaggctgggtg gcgtggctat      180
gggccggatg gccatttttg catgttccct gccaaactacg tggagctcat tgagtgagggc     240
tgagggcaca tcttgccctc ccctctcaga catggcttcc ttattgctgg aagaggagggc     300

```

```

<210> 1205
<211> 267
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1) ... (267)
<223> n = A,T,C or G

```

```

<400> 1205
aattccgttg ctgtcggcag gttggtgtca aaggaaatcc ccaaggcttc aaccagggtc      60
tggattgtga tgtgatcgta gctgaggtat gtgcttctca ggcctgcaaa gcttccacat      120
ttttgttgan atnanttatt catgnngact tgtatcnnnc tcnnnacnnt tnnntcnctn      180
naanctgnnt annnctatnn tnancttcgn aactnatctt gattacntnt tctncatcnt      240
annnttnatt tnantaannn ntgntga                                           267

```

```

<210> 1206
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 1206
gccacgggat cctcagcggc ttcaacaaga cggttctgcg gacgctcccg cggagcggaa      60
acctcattgt ggtggagagc gtgctcatgg cagtggcctt cctggccatg ctgctgggtgc      120
tggtttgtg cggagccgct taccggccca cggaggagat cgatctgctc agcgtgggct       180
ggggcaacat cttccagctg cccttcaagc acgtgcgtga ctaccgcttg cgccacctcg       240
tgcctttctt tatctacagc ggcttcgagg tgetctttgc ctgcactggt atgccttgg       300

```

```

<210> 1207
<211> 294
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1) ... (294)

```

<223> n = A,T,C or G

<400> 1207

gtagagaaca	acctgctgca	tctggaagac	ttatgtgggc	agtgtgaatt	agaaagatgc	60
aaacatatgc	agtcccagca	actggagaat	tacaagaaaa	ataagaggaa	ggaacttgaa	120
accttcaaag	ctgaactaga	tgcagagcac	gcccagaagg	tcctggaaat	ggagcacacc	180
cagcaaatga	agctgaagga	gcggcagaag	ttttttgagg	aagccttccn	ccnggacctg	240
gacctgtanc	tgttcnntgg	gtacntnctg	aannttgngt	gtnntnagct	cctt	294

<210> 1208

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1208

aattccgttg	ctgtcgtctg	tgatgagatc	gggaaagtgg	gctcaggagg	tctggatctg	60
tgatgagatg	gggaaagtgg	gctcaagagg	tctggatctg	tggtgagatg	ggggaagtgg	120
gctcaggagg	tctggatctg	tgatgagatg	gggaaagtgg	gctcaggagg	tctggatctg	180
tgatgagatg	gggaaagtgg	gctcaggagg	tctggatctg	tgatgagatg	ggggaagtgg	240
gctcaggagg	tctggatctg	tgatgagatg	ggggaagtgg	gctcaggagg	tctggatctg	300

<210> 1209

<211> 278

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (278)

<223> n = A,T,C or G

<400> 1209

aattccgttg	ctgtcgcagc	cttatcattg	gttatgccag	aaacccttcg	ctgaagcagc	60
agctgttctc	atatgctatc	ctgggatttg	ccttgtctga	agctatgggt	ctctttttgtg	120
tgatggttgc	ttnccttgnn	gtgcttnnca	ngaccnaaga	ncataggaaa	cacctgagta	180
gctcttntcg	tgctggccac	caggagaagg	agcantatag	tcgcttgagn	gnnggcggcc	240
attatnacag	ccngaanaca	ctttctacnt	cttcaatg			278

<210> 1210

<211> 281

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (281)

<223> n = A,T,C or G

<400> 1210

aattccgttg	ctgtcggaag	ctagatggac	taggagagac	ttgatttttg	tgctaaagtt	60
ccccagttca	tatgtgacat	cttttttaaaa	aaaataacaa	caaaaaaaaa	atganananaa	120
agctaaaaaa	aaangnangg	ggngancagt	naanggnatt	nattccacat	ncaanatcng	180
ggnaaaacga	tttctgttaa	aagnaccttn	aagggttttn	gntntaaaaa	nccgnaggtc	240
tatccttaaa	gcantnacnc	cangctttnt	tccttgggtt	t		281

<210> 1211

<211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1211
 aattccggtg ctgtcgctca gcccgctgc acccaggtga aataaacagc catgttgctc 60
 acacaaagcc tgtttggtgg tctcttcaca gggacacgga tgaaatttgg tgccgtgact 120
 cggatcgggg gacctccctt aggagatcaa tcccctgtac tccttttctt tgccctgtga 180
 gaaagatcca cctatgacct cagtcaggtc ctcagaccga ccagcccaag gaacatctca 240
 ccaattttta atcagacctt gaagatttgt tgttcaagga gaaactgaag agcaagaagg 300

<210> 1212
 <211> 293
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(293)
 <223> n = A,T,C or G

<400> 1212
 aattccggtg ctgtcgga aa tgacccgccc tcaatgctgg ctgctgctaa cattaatgag 60
 aaggtggcct tcagcgtgna nctgaggnnn naangncaca nnanntgaat gcttnnagcg 120
 acngaaatgg aatattctga naatgancan nancnncacc actacnacag aaagangttg 180
 gaggtcnctg taccctgntc attccttang ggnctgtctt nccttaataa gtaagtaagt 240
 tggntnacng ccctnnatat gcaaattgaga gctgaaagtt tttaaaaggt aca 293

<210> 1213
 <211> 280
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(280)
 <223> n = A,T,C or G

<400> 1213
 aattccggtg ctgtcgcttt gaaatgtaac aaatgggtact acaaccaatt ccaagtttta 60
 atttttaaca ccatggcacc ttttgacat aacatgcttt agattatata ttccgcactc 120
 aaggagtaac caggtcgtcc aagcaaaaac aaatgggaaa atgtcttaaa aaatcctggg 180
 tggacttttg aaaagctttt ttttttttga aacggagtnt tgctntgtng cccaggntgn 240
 agggcannan nncnatctng gntaattgca cntccgctt 280

<210> 1214
 <211> 259
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(259)
 <223> n = A,T,C or G

<400> 1214

```

aattccgttg ctgtcgctga gtaatctgga agaaacctgc cccatgacat gtattctcgg      60
aaagtgtgct gtgttgcat tcaaggactt cctctcctgc aggccaactg aaataccaga      120
aaatgacatt ctgctttgtg agagccgcta caatgagagc gacaagcaga tgaagaaatt      180
caaaggattg aagagggttt nactctctgc tanagcgtag acgatnnant ttacnctntc      240
nnanctcnat nttncanct                                         259

```

```

<210> 1215
<211> 276
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(276)
<223> n = A,T,C or G

```

```

<400> 1215
aattccgttg ctgtcggtct ctgtgtgtac ctcccattga gtagagaagc ttaagataat      60
ttctgagaga agaacactgc tgattgtggg agcagtttag gagtccatgg aagaaagaaa      120
aatacatgtg tcttggcagc catggtgtat ttttgtccaa atggattgga aggatatttg      180
aatatttgaa tgntgntncn acataangtt gannnncaact ntcnattcnn ccnntgaant      240
acantnctgn cnancnctnt cnccttaatn tcnttc                                         276

```

```

<210> 1216
<211> 299
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(299)
<223> n = A,T,C or G

```

```

<400> 1216
aattccgttg ctgtcggttag agatcatctt tacagttcct cgggaaaatg tgaatgtgct      60
gcgttttgtt ttctttactg tatgaaaaca ggaaaataaa agagaaattt agaaaataca      120
gtcattaca ataaaattgt tggatttcat ttcccaggt cttcagtgtt gatgtaaattg      180
tgttttgtag tgttgcttag cactttgcgc attgtgtang ttgggtaaca nntanggcta      240
nctaanngca nnnnttccan ncntttngnt ctgaanacct tcntttannc tgcccattg      299

```

```

<210> 1217
<211> 296
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(296)
<223> n = A,T,C or G

```

```

<400> 1217
aattccgttg ctgtcgcagc tttattgctc acacaaagcc tgtttggtgg tctcttcaca      60
cggatgcgca tgaaatttgg tgccgtgact cggatcgggg gacctctctt aggagatcaa      120
tcccccgtec tcttgcctct tgctccatga gaaagatcca cctatgacct caggtcctca      180
gaccgaccag cccaagaaac atntcaccaa tttcaaactt ggncttcana tggaaaggan      240
cnngtatccn naaagangtg atcaangatt gcntnctgag ganntcatat gcactt      296

```

<210> 1218
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1218
 aattccgttg ctgtcgcgaa ataatacgtg tagatgcccc tgatccaggt gcagacccgc 60
 tggctagcag tgtgaacggc atgtgcctgg atattcctgc tcacctgagc atccgcatcc 120
 tcatctcgga tgctggcgcg gtggaagggg ttactcagca ggagatactc ggtgtagaga 180
 caagggttctc ctcagtgaac tggcagtacc agtgtgggct tacctgtgag cacaaggccg 240
 accttctccc tatcagtgc tccgtccagt ttattaaaat tcctggcagt taccaccacc 300

<210> 1219
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1219
 aattccgttg ctgtcggcca ggaaaggcaa ggggcagatc gagaagagga agctgcggga 60
 gaagcggcgc tccaccggcg tggtaacat ccctgccgca gagtgccttag atgagtacga 120
 agatgatgaa gcagggcgaga aagagcggaa acgagaagat gcaattacac aacagaacac 180
 tatacagaat gaagctgtaa acttactaga tccaggcagt tcctatctgc tacaggagcc 240
 acctagaaca gtttcaggca gatataaaag cacaaccagt gtctctgaag aagatgtctc 300

<210> 1220
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1220
 catcttggcc atgctgggtct tgaactcctg acatcgtgat ccatctgcct cggcctccca 60
 aagtgtctggg attacaggca tgagccacag tgcccggcca ttttgcccat tttttaatca 120
 ggttatttgc ttttttggga agattcgcg cgcctatcta cgtagatcca gacatgataa 180
 gatacattga tgagtttggg caaaccacaa ctagaatgca gtgaaaaaaaa tgctttattt 240
 gtgaaatttg tgatgctatt gctttatttg taaccattat aagctgcaat aaacaagtta 300

<210> 1221
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1221
 aattccgttg ctgtcgagca aataccaagg cctaaaaaag aatgaattat ttgctgtttg 60
 ggaaatggaa gcccacgctg agtgctgaag cacagggact ctgcgagga agaggagggg 120
 aagcaagaaa tgaatttggg tccttgtgat ggcagtggct gctgccatca cgctgtgtgg 180
 ctagggctgc acacttcatg gagccggtgg aagccccgtc cctcatgagt tgggactgga 240
 gccgcaaacc gctgctgcag acccaggcct tctgctctat ggagcaggga ggagccccac 300

<210> 1222
 <211> 270
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(270)

<223> n = A,T,C or G

<400> 1222

aattccggtg	ctgtcgagc	cttggtttat	gccacttttc	tctccccata	ccttccccctc	60
atgtgtactt	agccacctgt	gttgctttga	atctgctgcc	agttctggct	caaagtgggc	120
acaaaatnag	nacttnagac	gcaccatgan	ntnctgtgg	ctatnnnttc	tnangantng	180
tttnacnntt	nctgtnttat	nntntgntta	ngnttnagnn	gtnnnnnnnta	nnnnnaaata	240
nnnnatgatg	ntntngncna	tcnntntnat				270

<210> 1223

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1223

aattccggtg	ctgtcgcttc	gtggagctct	tccagagctg	gccgctgctg	gagaggccct	60
ggaaggcctt	cctcaacctc	tcggccatcg	tgctcttcct	gttcatctgt	ggcctcctgc	120
cctggatcga	caacatcgcc	cacatcttcg	gcttcctcag	tggcctgctg	ctggccttcg	180
ccttcctgcc	ctacatcacc	ttcggcacca	gcgacaagta	ccgcaagcgg	gcactcatcc	240
tgggtgcact	gctggccttt	gccggcctct	tcgccgcctc	cgtgctgtgg	ctgtacatct	300

<210> 1224

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(300)

<223> n = A,T,C or G

<400> 1224

aattccggtg	ctgtcggaag	aacataaaca	ggatgctgag	agattggggtc	tctccacatt	60
gccccggctg	ctctccaacc	cctgagttca	agtgattcac	ctcccttggc	ctcccaaagt	120
actgggatta	caggcgtag	ccaccgtgcc	tggctgagaa	gatggattta	agacatatct	180
tggaggtaac	attgtcagga	cttcctgaag	gattanatgt	ggaagggaag	gataagaaac	240
agaccaagga	taactttcaa	atgtatgctt	aagcaactgg	atggataatg	atgccattga	300

<210> 1225

<211> 286

<212> DNA

<213> Homo sapiens

<400> 1225

aattccggtg	ctgtcgcgaa	tggtttagcg	ccaggttccc	cacgaacgtg	cgggtgcgtga	60
cgggcgaggg	ggcgagcgt	atctacttag	atccagacat	gataagatac	attgatgagt	120
ttggacaaac	cacatctaga	atgcagtga	taaaatgctt	tattttgtga	attatgtgat	180
gctattgttt	tattttgtaac	cattataagc	tgccgatata	caagttaaca	acaacaattg	240
cattcatttt	atgtttcagg	ttcaggggga	ggtgtgtgag	gtttta		286

<210> 1226

<211> 268

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature
 <222> (1)...(268)
 <223> n = A,T,C or G

<400> 1226
 aattccgttg ctgtcggcgc ggggcagcaa cagtcgcagg agatgatgga ggttgacagg 60
 cgggtcagtg ctgaagaatc cggcgatgaa gaaggggaaga aacacagcag tggcatcgtg 120
 gccgacctca gtgaacagag cctgaaggat ggggaggagc gnttgnagga nganttnnnn 180
 nntttntnt ntgtcttnnn canttnnant nnncttcct nanagttngc tnnangnnnn 240
 nnttttatan nntatcnnnn nnatcatt 268

<210> 1227
 <211> 289
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(289)
 <223> n = A,T,C or G

<400> 1227
 aattccgttg ctgtcgcagg aagtgaggat acttctggcg agcgccgggt gctgtttctt 60
 ctcaggctca gggaccggcc gcggccccgt agggggtttt aactcaaagt ggtgatgaaa 120
 aggactcttg gaaagtgaaa actttacatg aaattcttca ngaaaagaaa cgaangangg 180
 aacangagga gaaagcagag ataaaacgct taanaaatc tgatgaccgg gattccaagc 240
 gggattccct tgaggagggg gagctnanag atnactgcat ggagatcac 289

<210> 1228
 <211> 264
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(264)
 <223> n = A,T,C or G

<400> 1228
 aattccgttg ctgtcgcttt ttatcacctc ccctcctcac acctgggtccg gcttacagtt 60
 tcgttccgtg actagccctc cccacacctg ccagcaatct actcttaaaa aggtggctgg 120
 agctaaagac atagtcaagg ttaacgctcc tttttcttta tccnnaatnn gatacgnta 180
 agntcctttt tnaanncann ttannnnnna gncnanntna tgncttnann cncnntnanc 240
 ntgtgagac ncannaatnt ttaa 264

<210> 1229
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1229
 aattccgttg ctgtcgggag tcggaacatc atcttcagcg ggctatttca gcacagcagg 60
 tgtatggcga gaagagggat aatatggtta taccggtccc agaggcagaa agtaatatg 120
 cttactatga gtctatatat cctggggaat ttaagatgcc aaagcagctc attcacatac 180
 agccttttag tttggatgct gaacagcctg attatgattt ggattctgaa gatgaagtat 240
 ttgtgaataa actgaaaaag aaaatggaca tctgccatt gcaatttgag gagatgattg 300

<210> 1230
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1230
 ctatctacgt acagccagac atgagaagat acattgatga ggttggacaa accacagcta 60
 gaatgcagtg gagaaaatgc tttatttgtg aaatttgtga tgctattgct ttatttgtaa 120
 ccattataag ctgcattaaa caagttaaca acaacagttg cattcattct atgtttcagg 180
 ttcaggggga ggtgtggggg tggagttgtt caggatatctt gggatatata tatgcattct 240
 aaaatctgta gcagcataac tcctttggga atcatgagac atttttgtct cttacctgtt 300

<210> 1231
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1231
 aattccgttg ctgtcgcagg aggaagccgc ctacatccaa gagatcacca cggcagatgg 60
 ccagaccgta cagcacctgg tgacctccga caaccaggtg cagtatatca tctcccagga 120
 tgggtgtccag cacctgtccc cccaggaata tgttgtgggc cctgaaggcc atcacatcca 180
 ggtacaggag ggccagatca cacacatcca gtatgaacaa ggagccccgt tccttcagga 240
 gtcccagatc cagtatgtgc ctgtgtcccc aggccagcag cttgtcacac aggetcaact 300

<210> 1232
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1232
 aattccgttg ctgtcgccag gaccctgggg aaaggaagcc agcccccagg gccagtcccc 60
 gaggggctga tccgcactca cagcatgagg ttctgcccc attctcacag gaccgcctc 120
 gtccctcaagg ccaaagacat cagacatgaa gtgggtcaaca ttaacctgag aaacaagcct 180
 gaatggtact atacaaagca cccttttggc cacattcctg tcctggagac cagccaatgt 240
 caactgatct atgaatctgt tattgcttat tcttgagtat cagaacacca ccttcttttg 300

<210> 1233
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1233
 aattccgttg ctgtcgccca aaccactcc accttactac cagacaacct tagccaaacc 60
 atttacccaa ataaagtata ggcgatagaa attgaaacct ggcgcaatag atatagtacc 120
 gcaagggaaa gatgaaaaat tataaccaag cataatatag caaggatcct cctgtttacc 180
 ctgtacctcc aatgtctggc acttgtaggt gctcaaatat tcgttgaatg aatgaaaaat 240
 ccatattgta attgatgtcc tctggccaca tagtttttaa attaggtgat tgattatatg 300

<210> 1234
 <211> 279
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)... (279)

<223> n = A,T,C or G

<400> 1234

aattccgttg	ctgtcggttca	aatatggaga	ttaatcacca	acttcttatt	ttttgggcca	60
gttggattca	atTTTTtatt	taacatgatt	tttctatata	gttactgtcg	aatgctagaa	120
gaaggctctt	tccgaggtcg	gacagcagac	tttgtattta	tgttcctttt	tggtggattc	180
ttaatgacct	tttttgggtct	gtttgtgagc	tgagttttct	tgggccaggc	ctttacaata	240
aggcacgtct	ntgngtggnn	cncnantgaa	ccccttatg			279

<210> 1235

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1235

aattccgttg	ctgtcgggtt	gttaaaaaatg	tcattctcaag	tcaagtcact	ggtctgtttg	60
catttgatac	atTTTTgtac	taactagcat	tgtaaaatta	tttcatgatt	agaaattacc	120
tgtggatatt	tgtataaaaag	tgtgaaataa	atTTTTtata	aaagtgttca	ttgtttcgta	180
acacagcatt	gtatatgtga	agcaaactct	aaaattataa	atgacaacct	gaattatcta	240
tttcatcaaa	ccaaagtcca	gtgtttttat	ttttgggtgc	tcattgtaac	tcagatcagc	300

<210> 1236

<211> 207

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (207)

<223> n = A,T,C or G

<400> 1236

aattccgttg	ctgtcgctca	gttttggcgg	agcaaagtcc	tagaggtggc	caaggacttc	60
cctgagtaca	cctttgccat	tgcggacgaa	gaggactatg	ctggggagggt	gaaggacctg	120
gggctcagcg	agagtgggga	ggatgacaat	gccgccntcc	tgaacgacag	tgggaaaaag	180
antgncnttt	ngnnananga	nnnnngnt				207

<210> 1237

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1237

aattccgttg	ctgtcgccca	ggccatgaag	cattatacag	aagccatcaa	aaggaacccg	60
aaagatgccca	aattatacag	caatcgagct	gcctgttaca	ccaaactcct	ggagtccag	120
ctggcactca	aggactgtga	ggaatgtatc	cagctggagc	cgaccttcac	caaggggata	180
gtcccccttc	tgaaaacact	cgttgccttt	gttcttctcc	tccaaagcca	gctaaattcc	240
aaataccaga	gactgaaatt	ttcagccttg	ctaagggaac	atctcgatgt	ttgaaccttt	300

<210> 1238

<211> 249

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(249)

<223> n = A,T,C or G

<400> 1238

aattccgttg	ctgtcggctg	acagctat	tttgaaatttgg	agcagaggat	ctcttcaaag	60
aactggaagg	ggaggaatca	gaacctcagg	aaatggatat	agatgaaatt	ttgcggttgg	120
ctganacgan	agagaatgaa	gtgtcancna	gtgcncagat	gaantttctat	cacagantaa	180
ggttgtnaan	tttgacgacna	tggangatgn	gtaactnntn	taaaancntg	gnentgnttn	240
gtngggata						249

<210> 1239

<211> 269

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(269)

<223> n = A,T,C or G

<400> 1239

aattccgttg	ctgtcgggac	aacgccaagc	tgggtgcctgt	gctctcagcc	aaggcggccc	60
aagccagtga	cctggaaaaa	atccacctgg	atgagaagtc	tttccgttgg	ttgcacaacg	120
aggaccagat	ggctgtggag	aagctttntg	acgggatcng	caagtttgcc	ngtgatgcag	180
tnaagcnnnn	ncgcttnctt	gnnagatnga	atgtntttat	ngttaatngn	aananttttg	240
tntctanntg	gtgtntntnt	nattatgnc				269

<210> 1240

<211> 294

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(294)

<223> n = A,T,C or G

<400> 1240

aattccgttg	ctgtcgatat	tttggaggac	gggtgaagag	gtaataacga	aagcaagcga	60
gtgaattagg	atttcaaagt	gccctaatag	tgtgagtctc	cagttccctag	aatatgaaga	120
gtgctgtcgt	tggggtgaaa	ccatgagact	gacagatctg	cctgaaatgg	ggggtgtgta	180
angtgtcgtn	cctgagtggc	nnggnnnngn	ggntatgngn	gntngngggg	ngnggnntng	240
nntcggngnn	gntnnnnnt	gtgggnntgn	tntntatntn	ggnnngattt	cggg	294

<210> 1241

<211> 285

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(285)

<223> n = A,T,C or G

<400> 1241

aattccgttg	ctgtcggtat	cgccaccgtg	ctgcagcacg	aggagcgccg	ctgccagtac	60
------------	------------	------------	------------	------------	------------	----

```

ctcacccggg aggccaagct gatactggca ctccaggatg aggtgtccgc catggctgat      120
ggaaatgaag gtccctcagtc cccattccat cacatcctgc ccatttgctt cattgcccna      180
aacctnaagg aancttatga naggctgnng negtnagacg tantgcggct tcacatnaac      240
anctggctng anntgagctt ttgcntgncc tacatgaacc actat                        285

```

```

<210> 1242
<211> 250
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(250)
<223> n = A,T,C or G

```

```

<400> 1242
aattccggtg ctgtcgaacc atccagatta gatgtcacca acagtgagag cccagaaaatt      60
cctttgaatc caattttggc cttggatgat gaagggacac ttggggccct gcctcaggta      120
gatgggtgtc agacacagca gactgcagaa gttatatgag tgntanttct gaanaaccnt      180
tgctgacttt ttntgnnaan ttnttacant nanngnaatt tctttcctgn tctatnngat      240
cantntctcc                                         250

```

```

<210> 1243
<211> 266
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(266)
<223> n = A,T,C or G

```

```

<400> 1243
aattccgttg ctgtcggaaa gggctaaaaca tgtgaggcct ggagatagtt gctaagttgc      60
taggaacatg tgggtgggact ttcataattct gaaaaatgtt ctatatcttc atttttctaa      120
aagaaagaaa aaaggaaacc cgattttatt ctectgaate tttttaagtt tgtgtcgntn      180
tttncggcng aactaanttc natncnttga ncttanctnn tangctnggn cctcnatncn      240
tnatnntncc nagagatcga nncnnt                                         266

```

```

<210> 1244
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 1244
aattccgttg ctgtcgaagt ggcttaggga tggggtagag tagttgactt atttggatga      60
aaaccactat cttctgtcag aaactcaaaa ggaatcattg ctggcatggt aacctaaaaga      120
aaaacaacca gacaagtgcc caacgacact taaaaagggtg atttattagc ttgccaagtt      180
taggctgggc atggtgactc atgcctctaa tcccagcatt ttgggaggct gaggtggtg      240
gatcaccgga ggccaggact ttgagaccag cctgaccaat atggcgaaac ctgctccctg      300

```

```

<210> 1245
<211> 300
<212> DNA
<213> Homo sapiens

```

<400> 1245

```

aattccggtg ctgtcgcaat taaacacccc agtgtgaatg agaacttctg caatgaaaag      60
gaaggggctc agttcagcag tcatcttata aatcttctga accctaaagg aaagccagca      120
aaccagctgc ttgctctcag gacttttttg aattgttttg ttggccaggc aggacaaaaa      180
ctcatgatgt cccagaggga atcactgatg tcccatgcaa tagaactgaa atcagggagc      240
aataagaaca ttcacattgc tctggctaca ttggccctga actattctgt ttgttttcat      300

```

<210> 1246

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(300)

<223> n = A,T,C or G

<400> 1246

```

aatttcggtg ctgtcgggtg aagataacca caaggccgac atcagctcct gggttcattgga      60
agccatagag tacatcgatg ccgtgaagga ctgccgtggg cgcgtgctgg tgcactgcca      120
ggcggggcatc tcgcgggtcg ccaccatctg cctggcctac ctgatgatga agaaacgggg      180
gaggtgtggg aggttttnc aagtgtctct gtagatancg tcantnggac tagatattcn      240
acaggccnta acttgantct attgccnntg tctttatnan atgtacnttt tatattctgt      300

```

<210> 1247

<211> 287

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(287)

<223> n = A,T,C or G

<400> 1247

```

aattccggtg ctgtcggaaa aattaaagaa gatgatgctc caagaacaat agcttgccct      60
cataaaggct gcacaaagat gttcagggat aactcggcca tgagaaaaca tctgcacacc      120
cacggtocca gagtcacagt ctgtgcagaa tgtggcaaa cttttgttga gagttcaaaa      180
ctaaaacgac accaactggt tcatactggt gagtagccct ttctgtgctc gttctaaggc      240
tgtgggaaac gctttncnct gtcttcantt ngcncacnnc tgtgcga                      287

```

<210> 1248

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(300)

<223> n = A,T,C or G

<400> 1248

```

aattccggtg ctgtcggccg agcttgacac cctcaacgag gactcctaca aggactccac      60
gctcatcatg cagctcctcc gcgacaacct cagctctctg acgagcgacc agcaggacga      120
cgatggcggc gaaggcaaca attaaggccc caggggaact ggcagcgac gcggatgcta      180
ctactgcagt ctttattttt tcccatgag ttggggggtc ggtgggggag gtgtgggagg      240

```

gnatgacctt cccagggaga aacccacgac ctgtcctgnc tttgatcgnc tctttgacat 300

<210> 1249
 <211> 291
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <222> (1)...(291)
 <223> n = A,T,C or G

<400> 1249
 aattccgttg ctgtcggcag tttggggaag tctggatggg ttactataac aacagtacca 60
 aggtggctgt gaaaaccctg aagccaggaa ctatgtctgt gcaagccttc ctggaagaag 120
 ccaacctcat gaagaccctg cagcatgaca agctcgtgag gctctacgct gnggncacca 180
 ggggaangagc ccattnacat catcatcgat tacntngtna aggncantnt gntgaatttt 240
 ntgnttanann atnanngcca nnannntnnn tctacnaaan nntattttcta t 291

<210> 1250
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 1250
 aattccgttg ctgtcgggtt tggaggccct tgcttttctt catcatgagg gctatgtcca 60
 tgcggacctc aaaccacgta acatattgtg gagtgcagag aatgaatgtt ttaaactcat 120
 tgactttgga cttagcttca aagaaggcaa tcaggatgta aagtatatcc agacagacgg 180
 gtatcgggct ccagaagcag aattgcaaaa ttgcttgccc aagctggcct g 231

<210> 1251
 <211> 289
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(289)
 <223> n = A,T,C or G

<400> 1251
 tttggacaaa ccacaactag aatgcagtga aaaaaatgct ttatttgtga aatttgtgat 60
 gctattgctt tatttghtaac cattataagc tgcaataaac aagttaacaa caacaattgc 120
 attcatttta tgtttcaggt tcagggggag gtgtggggag ttttcannca ccacctgaca 180
 cttttgctga agntgnagga canactgaac cggcncctga nctgngacct gatgccanac 240
 ganaatatnc cngagttggn gnntganctg nngcanntgg gctacagtt 289

<210> 1252
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1252
 aattccgttg ctgtcggaga cacattacac ctaaccaaca agaagaagga tcctccccct 60
 tataatttaa ctatgtttac agggaatgcg tacattgtgg cttcccgaga tttcgtccaa 120
 catgttttga agaaccctaa atcccaacaa ctgattgaat gggtaaaaga cacttatagc 180

ccagatgaac acctctgggc cacccttcag cgtgcacggt ggatgcctgg ctctgttccc 240
 aaccacccca agtacgacat ctacagacatg acttctattg ccaggctggt caagtggcag 300

<210> 1253
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1253
 aattccggtg ctgtcggggg gatcaggata ctctgtctca cagacaccca tctcccccta 60
 ccaaaaaataa cgctggagtc ctcttccac cctgactctg cctctctgtc tgcaggagcc 120
 tggtcggggg gctccacaga agctgtgcct gggttggga gccaaaggcca tgtccctctc 180
 ccggccaggg gagacggagc ccatccacag tgtcagctat ggccatgtgg ccgcctgcc 240
 gctaattgggc cccacacccc tggccttgag ggtgggagag agccagctcc tctgcagag 300

<210> 1254
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1254
 aattccggtg ctgtcgcgag ttcattccac aatttctga ctcgagttag tggcattggt 60
 ccatctgctg caaggaagtt ttagatgaa ggaattaaaa cactagaagg ctacagctg 120
 gattcatgcc cagtaaaggg acacctgaat ggaactgagt cacttttaga cttaatatgg 180
 gatgttatga caattcttaa gttaaaaaat gcagatctca gaaaaaatga agataaattg 240
 aaccatcacc agcgaattgg gctgaaatat tttggggact ttgaaaaaag aattcctcgt 300

<210> 1255
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1255
 aattccggtg ctgtcgggtg cctggctgcc ctagcaaggc agtagaccca ggctgcctt 60
 ctgtgaagca agagccacct gaccagagg aggacaagga ggagaacaag gatgattctg 120
 cctccaaatt ggccccagag gaagaggcag gaggggctgg cacaccctg atcacggaga 180
 ttttcagcct ggggtggaacc cgcttccgag atacagcagt ctggttgcca aggtattacc 240
 accttgctct tgactggaaa tgcaactgtg gttaccacct gtgctgcagg tccgtcctgg 300

<210> 1256
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1256
 aattccggtg ctgtcggggg gatcaggata ctctgtctca cagacaccca tctcccccta 60
 ccaaaaaataa cgctgggctc ctcttccac cctgactctg cctctctgtc tgcaggagcc 120
 tggtcggggg gctccacaga agctgtgcct gggttggga gccaaaggcca tgtccctctc 180
 ccggccaggg gagacggagc ccatccacag tgtcagctat ggccatgtgg ccgcctgcc 240
 gctaattgggc cccacacccc tggccttgag ggtgggagag agccagctcc tctgcagag 300

<210> 1257
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1257
aattccgttg ctgtcgggtg ttgacgagct cggcggcggt tttgctgaga tctgtggccg 60
tcggcagctg gtgcgggggg cagctgagag cgagaggtgg atcggggcgg tgtgtggcca 120
gggccatgac gggcaatgcc ggggagtggt gcctcatgga aagcgacccc ggggtcttca 180
ccgagctcat taaaggattc ggttgccgag gagcccaagt agaagaaata tggagtttag 240
agcctgagaa ttttgaaaaa ttaaagccag ttcatggggt aatttttctt ttcaagtggc 300

<210> 1258
<211> 252
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(252)
<223> n = A,T,C or G

<400> 1258
aattccgttg ctgtcgaata aaagcaaaca gaacactcca acttagagca ataacggctg 60
ccgcagcagc caggggaagac cttgggttgg tttatgtgtc agtttcactt ttccgataga 120
aatttcttac ctcatTTTTT taagcagtaa ggcttgaagt gatgaaaccc acagatccta 180
gcaaagtgtc ccaaccagct ttactaaagg gggaggtgtg ggaggttttg ggatganaan 240
acnngtttcc ca 252

<210> 1259
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1259
aattccgttg ctgtcgcgtt cctgtctgag ccccaagcca cctcagggtc aagagcaaca 60
gggccaagag gatgaagtgg tcttggtgga agggccacc ctcccagaga cccccgact 120
cttcccactc aaaatccgtt gccgggctga cctggtcaga ttgcccctca ggatgtcgga 180
gccccctgcag agtgtggtgg accacatggc caccacctt ggggtgtccc caagcaggat 240
ccttttgctt tttggagaga cagagctatc acctactgcc actcccagga ccctaaagct 300

<210> 1260
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1260
aattccgttg ctgtcgcgtg aggtcatcag gcagtctgct gggcaaaaga caacctgtgg 60
ccagggtctg gaagggccct gggagcgccc accccctctg gatgagtcgg agagagatgg 120
aggctctgag gaccaagtgg aagaccagc actaagtgag cctggggagg aacctcagcg 180
cccttcccc tctgagcctg gcacataggc acccagcctg catctcccag gaggaagtgg 240
aggggacatc gctgttcccc agaaaccac tctatcctca cctgttttg tgctcttccc 300

<210> 1261
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1261
ccgcactata gaatacaagc tacttgttct ttttgcagga tcccatcgag aaaaaactgg 60
ccatgcagaa gtcgtccgag tgggtgacca gccagaacac atgagttttg aggaactgct 120

```

caaggtcttc tgggagaatc acgacccgac ccaaggtatg cgccagggga acgaccatgg      180
cactcagtac cgctcggcca tctacccgac ctctgccaag caaatggagg cagccctgag      240
ctccaaagag aactaccaaa aggttctttc agagcacggc ttcggcccca tcactaccga      300

```

```

<210> 1262
<211> 295
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(295)
<223> n = A,T,C or G

```

```

<400> 1262
acgtacatcc atacatgata agatacattg atgagtttgg acaaaccaca actagaatgc      60
agtgaaaaaa atgctttatt tgtgaaattt gtgatgctat tgctttattt gtaaccatta      120
taagctgcag taaacaagtt aacaacaaca ctgcatcca ttttatgttt caggttcagg      180
gggaggtgtg ggaggntttn ntggatctgn ccgncncncn nangtncaen nontgcnngt      240
ggcngangnt nccntcaagc cctngnnttn ngntcctttc attgtccaac aatga          295

```

```

<210> 1263
<211> 256
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(256)
<223> n = A,T,C or G

```

```

<400> 1263
gctatctacg tagatccaga catgataaga tacattgatg agtttggaca aaccacaact      60
agaatgcagt gaaaaaaatg ctttatttgt gaaatttgtg atgctattgc tttatttgta      120
accattataa gctgcaataa acaagttaac aacaacaatt gcattcattt tatgtttcag      180
gttcagggggg aggtgtggga ggttgcccn tngcaaagggn gnnctaggct ctctnggnga      240
ttnnnnngtt tcccgga          256

```

```

<210> 1264
<211> 205
<212> DNA
<213> Homo sapiens

```

```

<400> 1264
gctatctacg tagatccaga catgataaga tacattgatg agtttggaca aaccacaact      60
agaatgcagt gaaaaaaatg ctttatttgt gaaatttgtg atgctattgc tttatttgta      120
accattataa gctgcaataa acaagttaac aacaacaatt gcattcattt tatgtttcag      180
gttcagggggg aggtgtggga ggttt          205

```

```

<210> 1265
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 1265
aattccgttg ctgtcgtgaa aaggcaggtc ctctgttatg aactatttca gagcaagacc      60

```

```

cgtcacagaa aatttaaaga aattcaagtc ccatataatg tccagtggat ggcaatcttc      120
agtgaacaac tctgtgtggg attccagtc  ggatttctaa gataccctt  gaatggagaa      180
ggaaatccat acagtatgct ccattcaaatt gaccatacac tatcatttat tgcacatcaa      240
ccaatggatg ctatctgcgc agttgagatc tccagtaaag aatatctgct gtgttttaac      300

```

```

<210> 1266
<211> 239
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(239)
<223> n = A,T,C or G

```

```

<400> 1266
ctatctacgt agatccagac atgataagat acattgatga gtttggacaa accacaacta      60
gaatgcagtg aaaaaaatgc tttatttgtg aaatttgtga tgctattgct ttatttgtaa      120
ccattataag ctgcaataaa caagttaaca acaacaattg cattcatttt atgtttcagg      180
ttcaggggga ggtgtgggag gttttntntn nnnnnnnnnn nnnngntttn ntntnnnnng      239

```

```

<210> 1267
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 1267
aattccgttg ctgtcgttcc cattcagctc ttgggggtgaa gccttattcc tgatgctcca      60
gacgatcacc atctgcttcc tggatcatgca ctacagagga cagactgtga aagggtgtcgc      120
tttcctcgct tgctacggcc tggctctgct ggtgcttctc tcacctctga cgccttgac      180
tgtagtcacc ctgctccagg cctccaatgt gcctgctgtg gtgggtgggga ggcttctcca      240
ggcagccacc aactaccaca acgggcacac aggccagctc tcagccatca cagtcttctc      300

```

```

<210> 1268
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 1268
aattccgttg ctgtcgctac cattgcaaga cccagattg caagggatgg tgcttctttg      60
aggatgatgt caatgagttc acctgccctg tgtgtttcca cgtcaactgc ctgctctgca      120
aggccatcca tgagcagatg aactgcaagg agtatcagga ggacctggcc ctgcggggctc      180
agaacgatgt ggtgccccgg cagacgacag agatgctgaa ggtgatgctg cagcagggcg      240
aggccatgct ctgccccag tgccagatcg tggtagagaa gaaggacggc tgcgactgga      300

```

```

<210> 1269
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 1269
atgaaatctc tttcatccga gcaggagaag gtgctcttaa acaagccttg gcaaagtcaa      60
cattatgtat tcttgaacct attatggctg tggaggttgt agtccaaat gaatttcagg      120
gacaagtaat tgcaggaatt aaccgacgcc atggggtaat cactgggcaa gatggagtgt      180
aggactatct tacactgtat gcagatgtcc ctctaaatga tatgtttggt tattccactg      240
aacttaggtc atgcacagag ggaaaggag aatacacaat ggagtatagc aggtatcagc      300

```

<210> 1270
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1270
 aattccgttg ctgtcggcaa ctctggaggag aagacccccg cccccaggct agctgcggag 60
 aaaaccaaga aggaggagta catgaagaag ctgcacatgc aggagcgtgc tgtggaggag 120
 gtgaagctgg ccatcaagcc cttctaccag aagagggagg tgaccaagga ggagtacaag 180
 gacatcctgc gcaaggccgt gcagaagatc tgccacagca agagtggaga gatcaacccc 240
 gtgaaggtgg ccaacctggt gaaggcgtag gtggacaagt acaggcacat gcgcaggcac 300

<210> 1271
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1271
 aattccgttg ctgtcgagca ctctcagatt tctgaaagga caggacgaag atcaagtgc 60
 cagtgttccr atagcacaaa tggggaacta ccaggaatac ctcaagcaag taccttctcc 120
 actaagagaa cttgatcctg atcagccacg aagggttgcac acatttggca acccctttaa 180
 gctggataag aagggtatga tgatagatga agcagatgaa tttgtggctg gacctcaaaa 240
 taaacataaa cgacccggag aaccaaatat gcaagggatc cctaaaagac gtcggtgttt 300

<210> 1272
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1272
 aattccgttg ctgtcgatgc gaccaagggc atcactcggt gcctcctgaa tgaaacaacc 60
 aacaataaga acgagaagga gcttgtgcta aacacagaag gaatcaacct cccagagcta 120
 ttcaagtatg cagaggtcct ggatctgcgc cgctctact ccaacgacat ccacgccata 180
 gccaacacgt atggcattga ggccgcgctg cgggtgatcg agaaggagat caaggatgtg 240
 tttgccgtgt atggcatcgc ggtcgaccct cgccatctct ccctgggttg tgattatatg 300

<210> 1273
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1273
 aattccgttg ctgtcgaatt ggtttggcac ctactacagg atgatccaga ccaacttcat 60
 tgacatggag aacatgtttg acttgctgaa agaggagaca gaagtgaagg accttcttgg 120
 agcagggccc cttcgctttc agaagggccg tattgagttt gagaacgtgc acttcagcta 180
 tgccgatggg cgggagactc tgcaggacgt gtctttcact gtgatgcctg gacagacact 240
 tgccctggtg ggcccatctg gggcagggaa gagcacaatt ttgcgcctgc tgtttcgctt 300

<210> 1274
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1274
 aattccgttg ctgtcggcat tgcattcct gctctcttac cccaacgtc cacagagctg 60
 gatgttcttc acaatgtcca agtggctgca gtggttggca ttggccttgt atatcaaggg 120

acagctcaca gacatactgc agaagtcctg ttggctgaga taggacggcc tcctgggtcct	180
gaaatggaat actgcactga cagaaagtca tactccttag ctgctggctt ggccctgggc	240
atggctctgct tggggcacgg cagcaatttg ataggtatgt ctgatctcaa tgtgcctgag	300

<210> 1275
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1275	
aattccgttg ctgtcgagca gcggaagcgt gaggctgagg agcggcgccg cttccccctg	60
gagcagcgac taaaggagca catcattggc caggagagcg ccatcgccac agtgggtgct	120
gcgatccgga ggaaggagaa tggctggtac gatgaagaac accctctggt cttcctcttc	180
ttgggatcat ctggaatagg aaaaacagag ctggccaagc agacagccaa atatatgcac	240
aaagatgcta aaaagggtct catcaggctg gacatgtccg agttccagga gcgacacgag	300

<210> 1276
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1276	
aattccgttg ctgtcgctta cttctcacac ccagccatcc gctatcacc tcaggagacg	60
ctgaaagaat ttgtccaact tgtctgccct gatgctggc agcaggctgg acagggtggg	120
ttcctcaatc ccaatgggag cagccaaggc aagggtgcaca acccattcct tcccaccca	180
atgttgccac cgccaccgcc accaccgatg gccaggcctg tgcctctgcc ggtgccagac	240
acaaagcctc caaccacgtc aacagaagga ggtgcagcct ccccccacgtc accaatcctg	300

<210> 1277
 <211> 297
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(297)
 <223> n = A,T,C or G

<400> 1277	
aattccgttg ctgtcggtct tgatcttctg acctcgtgat ccaccgcct cggcctccca	60
nagngctggg attacangcg tgagctaccg tgcccggcnn catattnctt aatganaact	120
ttnttgaaan ccttcattat ttctgtgnet ttgganttag gnancagaga ttcataggta	180
ccttnagaan ganagaaatn tctctacnca natgagtent ccannectgg aagnnataat	240
nnaactgnnc tcactactcc aancctttaag aagctnnatg angctcattn taaggaa	297

<210> 1278
 <211> 289
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(289)
 <223> n = A,T,C or G

<400> 1278

```

aattccggttg ctgtcggttg acccgccaag gcagcctctt cctccataga tggatgaacg      60
ctgtggccgc tgctcctgcc tgggccatgc cctgatgctg ccaacaccac tgctcctcta      120
tttataagnn ttagtacagn tgnatgaccc ttcaatannt gaacagnnga tatgttcttn      180
acantaagnc nannnctnna tangaatnnn tcantgnant nnncataaat atatnccttn      240
nchnanacna nncnttnna ntagnnaann tcntttnatt nntattctt      289

```

<210> 1279
 <211> 294
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(294)
 <223> n = A,T,C or G

```

<400> 1279
aattccggttg ctgtcgagcc tgcccgcccc caggtgaaat aaacagccat gttgetcaca      60
caaagcctgt ttggtgtctc ttcacactga ctcgagtga ctttgatgcc ntggctanta      120
tattttcant atntnttatn anattatntt tnctccttn ttnttttttn nnnnttttta      180
aagnntnntt ttngntnntt ttnttttttt nntnnncttc tttttntnct nnattntctt      240
cnntatcttt nntantnctt ttctntnntt nntgattntt nttncttttt tgat      294

```

<210> 1280
 <211> 300
 <212> DNA
 <213> Homo sapiens

```

<400> 1280
aattccggttg ctgtcggaag acaggtggcc atgaaacaga tggcataga attggttcag      60
tggttggtgag tgcagcaacc caagagtgtc ttatctgaaa taccaccagg aatgtctgga      120
cacagtagac aaagtttttt caactggacg ccttaggata catgcttcca aaaacaaagt      180
agccaaaaaag aaaccagagt cacagaatat cagagccaaa ggaacatttg gaggtaattc      240
agtacctcct cctttttcaac ctacagggga gatagtggaa gagaagcagg gatgggtctg      300

```

<210> 1281
 <211> 300
 <212> DNA
 <213> Homo sapiens

```

<400> 1281
aattccggttg ctgtcggaag agagcccgaa actaaacagg gaggaatcca ccatttagaa      60
gtctggcagg caaagaggac aagagagtgt caatgaagac ctcaaagtct ggagaaaaat      120
gacctttcat ggaataagaa gtatacctcc ttctacatgt ttttgtctta ctgacctctg      180
ataactggaa cacatgactc tgggtctgta gaaagtcaac tgatcaaact catcctcacc      240
atgcatcaac tggttcagact ggttttggga caaaaagatc tttcacgagc tggggacctc      300

```

<210> 1282
 <211> 287
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(287)
 <223> n = A,T,C or G

<400> 1282

aattccggtg	ctgtcgaga	atcttaactt	atcttaatga	tatttaccta	tcctttttgc	60
aactcacaac	tgactttgtc	acagaggtaa	tgcattctgt	tgagggaagt	agctgtaggc	120
tcagtacctg	ttgtttgagt	cagatttagc	agatttggtt	tttaagcttg	tggtttgtg	180
ctaatttggg	cagaatatat	ttattatata	tgtgtgtgtg	tatgtgtgta	tgtgtgtgtc	240
tgcatacgna	ntacctgtac	atagacacac	atgcatgtgg	tcattcct		287

<210> 1283

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1283

aattccggtg	ctgtcgccag	ggctgagaag	ataaggctac	ttataggggc	gggaagcatt	60
gaagctggtt	tctggcccta	gcgctccctt	gcgatgagat	gtgggagcca	gtgtgtccct	120
gcctgtccat	cctgtgcacc	cccagctttc	cttgtcacct	gaaaccacct	ctgaggggaag	180
gtggtggcgt	ctcagatgca	tgggcatgtg	gctggtcagg	tggcctccat	cccaggggtgc	240
cccgtctgtg	tgacctccct	ctgggtgctg	tgggcttgct	ccaggggtgca	ggtgcaaccc	300

<210> 1284

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1284

aattccggtg	ctgtcggttt	cggccaatct	gttacctcag	tgttgccatc	ttcattgcca	60
aagcctcctt	ttgggatggt	gtttggatct	cagccaggtc	tttatttgtc	tgctttggat	120
gctacacatc	agcagttgac	accttcccag	gagctggatg	atctgataga	ttctcagaag	180
aacttagaga	cttcacagc	cttccagtcc	tcattctcaga	aattgactag	ccagaaggaa	240
cagaaaaact	tagagtcttc	aacaggcttt	cagattccat	ctcaggagtt	agctagccag	300

<210> 1285

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1285

aattccggtg	ctgtcgggct	gcagttccgg	ctacctgtgt	agtccgagtt	tcacagcca	60
ggtactactc	cgccagtgac	cctggacagt	aacaaaacat	ataaagcccg	agcccaaacc	120
ccgccaccat	catagtgtgg	gaattttgtc	gtcctcgtgg	atcttcatat	cttgccacaa	180
ggttcaaaca	aagatacaag	ctggttttct	gaacagaaga	aagaggaagt	ctgtttactg	240
ttaaaagaaa	ccattgattc	aagagttcag	gagtacttgg	aagttcgcaa	acagcacagg	300

<210> 1286

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1286

aattccggtg	ctgtcggtct	caggccactg	cgccaccgcg	ctggtgctga	gcagaagcgg	60
gcagaagtgg	ggtctgcttt	caggacttca	tttccccac	tcgttccggc	cccgcattgt	120
ccacgtctgc	cctttggtct	gagttaaaac	tgcatgctg	aaaagtgcga	gctctttcca	180
cgaggaggag	ccacacaggg	tggcctccga	gggtgagtcg	ctctgctaag	caagggcagt	240
cgctgcacgt	cagcccgag	gccaaagggtc	cagcttatcc	tgggtgctct	gtgatcagaa	300

<210> 1287

<211> 292
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(292)
 <223> n = A,T,C or G

<400> 1287
 aattccggtt ctgtcgagaa ttccggaagaa gccgggaccc aagcccggat ggaagaagaa 60
 gcttcgttgt gagagggagg agcttncnc catntnnann tttntttacc atngnctggn 120
 ctttctcteta cnnnnnnntnt atnntgngtt ntttttcttt nantcnnntt ttttttantt 180
 tttttnnncc ntgtgttttt ntcccttntn ttntntnttt tntntttntt ttntctnttn 240
 gttttnttan tacttttttn tnttcttttt ntgtttattg gntttttgtt ct 292

<210> 1288
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1288
 aattccggtt ctgtcggtga ccaaaaggaa agggcaacag caggagccct gttagtgtctg 60
 ccagaacacc aggaagcctt gtgggaggcg tattgtccaa gatgatgcgt attgtccaaa 120
 cgactcagaa gaagtcattt ctgaagggtt gatcataact tccctagcca tgttttacct 180
 acagagaact tagttagaat ttatgagtac agtatgttaa attactttta gtgtacctta 240
 ggcagtgtat ttgttttgat acagagacaa agactatatg atccctgaga cttgttgctt 300

<210> 1289
 <211> 267
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(267)
 <223> n = A,T,C or G

<400> 1289
 aattccggtt ctgtcggttt ttgtctgggc ttgtctagca gtggaattct gcctgagttc 60
 atcatttttt tgactggtac ttgaagtga tcagatgatt aatttcatga taagagggct 120
 ttttgccgtg gtgaaataga catttatgga aaatgggata cccacattaa gcagggtgac 180
 tacctgttta ccatacaacc cacacaaagc caatacaact atggatgngc tttatatant 240
 ctgntgcctc tgcaaacatt gaccgtg 267

<210> 1290
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1290
 aattccggtt ctgtcgggac cactccagaa ttggccgctg gcggtatcat ggcgacccgg 60
 aacccccctc cccaagacta tgaaagtgat gacgactctt atgaagtgtt ggattttaact 120
 gagtatgcaa gaagacacca gtggtggaat cgagtgtttg gccacagttc gggacctatg 180
 gtagaaaaat actcagtagc taccagatt gtaatgggtg gcgttactgg ctggtgtgca 240
 ggatttctgt tccagaaaagt tggaaaactt gcagcaactg cagtaggtgg tggctttctt 300

<210> 1291
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1291
 aattccggtg ctgtcgctga aagtaagaga aacagactct agctagttta agctggaaaa 60
 taaattatta aaactattct gtagctcata gcatctccag cagggctaga gagttagcca 120
 ggaataatgt cccaaagggtc acagccaagc cagcctggca gagccaccct ggacactgat 180
 accactgttt gccaatgccca ttgatttggg ccctgggtgg tggcactaag ggctcactcc 240
 cctaagcctc tggaaacagg atttggtgtg caccaccctc ccaggggtgca tttttcttgg 300

<210> 1292
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1292
 aattccggtg ctgtcgcaat ggcactgctt atctccgaaa tgggtgtgatc gtctcctcat 60
 tgagcagcgg ctgccaccgc gctgtgggta gtgtgtgacc gtggctgtac tgtatagtga 120
 acatagtgtg catatctttg tttgaagttt gttggtgact ccaccaaact ggtgtgaaaa 180
 aagaaaaaag ctcaaaaaaa tccacaaaaa gacaaaacac acaaaaaaaaaa tcctgcctat 240
 attttactca gtttcaaact ttattagtct atttttaatt ataaaaccag aaagctacaa 300

<210> 1293
 <211> 293
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1) ... (293)
 <223> n = A,T,C or G

<400> 1293
 aattccggtg ctgtcggcag atgacctcaa agcacaactg gagttggctc agaagaagct 60
 acatgatttt caggatgaga tcgtggagaa cagtgttacc aaagaaaagg acatgttcaa 120
 tttcaaacga gcccaggagg acatctctag acttcgcagg aagctggaga ccacagagaa 180
 accagacaat gtacccaagt gtgatgagat tctgatggaa gagantaagg attacaangc 240
 tcgctngacc tgnacngct antccatgng taattgganc tngntattca tat 293

<210> 1294
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1294
 aattccggtg ctgtcggagg gcaggagcat tcatctctgt ggccacatgt ttggtccagt 60
 gtctgacaaa taacattcaa cttgtaggaa caagtgatag cagagcatcc tttctcagga 120
 acaaggccca tcccctgggtg agctgtccca ctggagtcce aggctccctaa cctgtggcct 180
 aggtagacct taggatttgc ctactgatg ccaatgagtt gctgctgctt acttttgaaa 240
 caaagtgttg gcatgttcca gctgctgcga ttcaattgcc tttcagacag tgtggtgccc 300

<210> 1295
 <211> 284
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(284)

<223> n = A,T,C or G

<400> 1295

aattccggtg	ctgtcggagg	attcctaagg	tgtcagcatt	ttgtaaaggt	accacaaagg	60
agaagttgat	agggaatcta	atTTtagaat	gtgccaaatg	gtctgtgctc	aacaatataa	120
ttgaactctc	tcaactctac	ctcaccattt	ctttatctca	aaattctgnc	ggctttgtna	180
naccnnegat	ntnntntntg	nnncnancnn	gannnnncnaa	ncanttacnt	nngntngccn	240
tgtttntntc	tcnnnnctcg	ncgttatntn	atccnnncac	atac		284

<210> 1296

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1296

aattccggtg	ctgtcgggtcc	cgggctcaca	gtggcacgac	tgaatcctca	gagtcggctg	60
gcttttgagc	tctcacgatg	ggggaggagg	gggcgtttct	ggttcgcagc	tccagaggat	120
tgcgttcctt	ccccataacc	tgtccccccac	agtcacgctc	tgccctgacg	tgcagcattt	180
gacaagttac	cccctcgcca	catactactt	ccacccacgt	ccgagttaac	tttgttctta	240
accttcttga	gactaccctc	ggcctccagg	tctttttttc	ccagttcatt	tttggccata	300

<210> 1297

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1297

aattccggtg	ctgtcgggaa	aagatgcacc	gattgctctt	aagaggaaac	tggagatgaa	60
agccttgagg	gaattagaca	gattttctgt	tttgaatagc	caacacatgt	ttgaagtact	120
agctgccatg	aatcaccgat	ctcttatact	cctggatgaa	tgcagtaagg	tggctcctaga	180
taatatccat	gggtgtcctt	taagaataat	gatcaacata	ttgcagtcct	gcaaagacct	240
ccagtacat	aatttggatc	tcttcaaggg	acttgcagat	tatgtggctg	caactttcga	300

<210> 1298

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1298

aattccggtg	ctgtcgaagg	agtcctccat	ccagaagggc	aatatccgac	agagacagaa	60
gtgcctggaa	tctcaaaggc	agaacaacca	agaaacccca	aacctaaagt	tgagcccctg	120
tgccaaggtc	aaaggcgaag	atgcaaagtc	ccaggtatgg	gccttcacat	acaccagca	180
gacccctcag	gaggagctgt	gcctgtcagt	catcaccttg	ttccctggcg	ccccagtggg	240
tcttgtcctt	tgcaagaatg	gagatgaccg	acagcaatgg	acaaaaactg	gttcccacat	300

<210> 1299

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1299

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aattccgttg ctgtcgaacg tacctgtggt ccctggatcc agtgctactg ctacaaataa      60
gatcactatt atcttcaaag cccaccatga gtgtacagat cagaaagtct accaagctgt      120
gacagatgac ctgccggccg cctttgtgga tggcaccacc agtgggtggg acagcgatgc      180
caagagcctg cgtatcgtgg aaaggagag tggccactat gtggagatgc acgcccgtta      240
tatagggacc acagtgtttg tgcggcaggt gggtcgctac ctgacccttg ccatccgtat      300

```

```

<210> 1300
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 1300
aattccgttg ctgtcgggtcc cggggccagga gggtcacaga tgcaccacaa ggcactctgt      60
gtggcactgg gaacaggaat tctgggagtc agtctgcaag ggtgggtggg gttgctcacc      120
tgggagaagc ctttagagtg ggcgttgagc aggccattag ctctgcccct gaggaggtgc      180
atgggaggca tgggctctcc atggaaatta tgtgggcgcg aatggatgtg gctctgcgct      240
cacctgggag aggacttctg gccgggtgcc gggcactctg catgaccctg gcagaatcga      300

```

```

<210> 1301
<211> 300
<212> DNA
<213> Homo sapiens

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<400> 1301
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aggcccccct cgtggagaaa agatggagcc ggattaagca cccagtgtta aggcgactaa      180
gacgccactg cccgcaggcc ctgccggaat atactcagag agtgcagcag gcgccgcgat      240
tccttagaaa gtgctggcgt ggcctctcct gacacagaaa gccggctcct ggatgcttac      300

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<210> 1302
<211> 300
<212> DNA
<213> Homo sapiens

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<400> 1302
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cctgagaggt cgtctctccg ctcgccgctt ggacctctt gcgccattga accccctgat      120
ccggggggcct cggaccccag ggctcaggag atggatccag tccctggcgc tctacttcc      180
caactgctcc tctctccgca tcccacagt accccgtcct cacagcgggc tgtgggtcca      240
atcagacttt cccctcggtat tctctcttag gactgaacca agacttacc gaagttgccg      300

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<210> 1303
<211> 293
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1)...(293)
<223> n = A,T,C or G

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<400> 1303
aattccgttg ctgtcgtctgc tatcgaactc atcctcctta tggaggtctt cagggggcccc      60
agagacactg cagagagtgt cagggatttc ctccccaca acagaattgc tgagggtctg      120
ggaagcatgg agggaggaag cagaattgcg ggaccactgg cgcantgnnn ggatcangag      180

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ctatacttct tccngaactg atcnntgntn cctgcatntt ntgcacnagg nnnnaggatn 240
 ancttntaat anannctgnt gtnnntcctn agnnantnnn gtnngttcta agg 293

<210> 1304
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1304
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 tcagaactct gggatgattt taatcttgaa gtagtaggtg gtatagtcac aaaaccattc 120
 atccccctct tgattgtatc ttaattttct ggctttaagg cgacatctga gaggtaaatgc 180
 attctttttt atattgaaat cataaactat caccgcgtgc ttctctgagt tacttttaac 240
 ttgccttggt gggtatgggt tggcggttcc ttctgtttgg ttttcagagc cccatgtcta 300

<210> 1305
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1305
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 aactgcaagt gtgttaactt gtgtgggtgt ttgaagccat tttcccaaat aaagttatta 120
 aacaccactt tatgtactga agcatgaaca gaaaaatcaa gagctgagca gaccacctcc 180
 tttatgtagg caaaacttcc atcatttttg cttttgttct aaacagaact aaatgacatg 240
 catagcatgg taacttacag atcgcttaat tggagtataa ctcagagtaa tagagggaaa 300

<210> 1306
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1306
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 catgaggatg attaaataat ttagcactta gccccctgct gtactccttg gcttggatca 120
 tgaccacacc gaaggagtgc ccaccagcaa gagacctgga gacatcccca attcctgcaa 180
 gcagaatctg ggatgaacag tctgcatgcc tctcgccacc tgtcccaggg attccctgtt 240
 ccacaagaca cttgggatct gcttgtcatg catcatgcgt aactaatagt gcagaggaat 300

<210> 1307
 <211> 293
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(293)
 <223> n = A,T,C or G

<400> 1307
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 actaacttaa attgatanca ttgtngntga tatnnacaat naatatntnt ccnaaacnnt 180
 nanttnacan ntatantnna nactnnnnnt nnatanttat ntatntntaa cnnttnnngc 240
 cnnnnnttat nttatttttn ttctttnnng annnnngan tgncttttca tat 293

<210> 1308
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1308
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 tcttcaaaag atttagaaac aatagttact cttaagaaga ctatcagaat ctcaccacac 120
 agggagagtg accattctag tctaaataac aaatatttga atggatgtgg agaaatatca 180
 gtttcagaaa tgaatgaaaa gtccacaact ctgtgttata ggaagtataa tgatgtctct 240
 gatctttgca aattagaaaa taaacaatat tgtaggtggt ccaagaacca agatgacagt 300

<210> 1309
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1309
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 tcgttttgaa gtttgggcct cagcagactt gcatatattt gactgcaatt gcagcatttg 120
 caagaagaag cagaatagac acttcattgt tccagcttct cgcttcaagc tcttgaaggg 180
 agctgagcac ataacgactt acacgttcaa tactcacaaa gccagcata ccttctgtaa 240
 gagatgtggc gtccagagct tctatactcc acgatcaaac cccggaggct tcggaattgc 300

<210> 1310
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1310
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 atgtaataga atggaaaatg gcaaagcgcg ctgcttttca tagaagagac tatcgcatcg 120
 gggttcttct gttgcccttg cctgtgctgc acgtcctgct tcacagtgtg aagcgcaact 180
 cttgctgtgc cttattgtaa caggatatagg gtggatgctg ccatcatgaa gagagaggag 240
 agctctttgc ttataaaatt ccgtagagtg gagaacaggg tgtgccggct taggagaggg 300

<210> 1311
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1311
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 ggtgccggct ggtcagcagg tcacctgcca ccaggccctt cacctgcaga tgggctccat 120
 cgctgtggc ctgctgggtt aggctaaagg gcagcccggt ctcctgcggg ttggagagct 180
 catagcagga atgtctgggc ccaaccagtt ctcacaggct cctcaggaga cagagcctgg 240
 acttcgtgtc ttagcctcat acttcaggat taggggggca tttgtttaag ggtgtataag 300

<210> 1312
 <211> 300
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)... (300)

<223> n = A,T,C or G

<400> 1312

gtgagcctgn	anntcnnntt	gannctnaaa	agcnatggtn	ngtgctgacg	ctcaggcttc	60
caggacgggc	tagatctcca	aggggtccat	aggcccttta	tctgtgtaag	agagtcctct	120
ttagcatttt	ccttcagacc	cccatcccac	acacatgcta	gccgcgctca	gagcttccag	180
gggtactaga	ccctgtgaaa	ggccatttgg	gcctggcctt	tgtgtcgggg	gccccctctt	240
gccacacgtc	aggtctccta	acccacacct	ggccctagca	tcttccatca	gagactctgc	300

<210> 1313

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1313

aattccggtg	ctgtcgatgt	atcttgatcc	tattaaggaa	tatgtcattt	ttatgacctt	60
agactttggt	ctttgttggg	atcctttgaa	attggaatat	ggaagccctt	ctatcccacc	120
attgtcagtg	ttgcatatcc	ctagactctc	ttccagagtc	accctggggc	tgacttaaat	180
tctggggcac	aacttcaaat	ggctgttaac	gtttcccccg	acccaaaaca	cacacacccc	240
atgtctgaca	tctaagcaga	aagactgggg	gttggggagg	aagtcttggt	gttttttagga	300

<210> 1314

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1314

aattccggtg	ctgtcggcag	ccaggaggtg	ctggggccacg	cgccccgget	ggcctcctcc	60
ggtctctctc	tgcaagtgtt	gtttcggttg	atcacctttg	tcttgaatgc	atctattctt	120
cgcttctctg	caaaggaaaat	cgttggcgta	gtaaatgtaa	gactaacgct	gctttactca	180
accacctctt	tcttgccag	agaggccttc	cgagagcat	gtctcagtg	gggcacccag	240
cgagactgga	gccagaccct	caacctgctg	tggctaacag	tccccctggg	tgtgttttgg	300

<210> 1315

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1315

aattccggtg	ctgtcgaata	gagcaagtc	agcctgagcc	tgtggtcggc	agtggagaag	60
agaggggtcg	agacctgagg	caaagggcag	cctgaacaat	caagaaccag	agcagccctg	120
gcaccccgaca	cccaggagag	tgggctacag	gaagaggatc	tgagaccaga	gcccacagag	180
tctgcagaaa	ctagaggcac	aaggcacgag	gaatcacaaa	gcaaacttaa	gtgccgacat	240
caaagaaggc	attctcaccc	tgtttctgc	ttctgggttt	ctccacattc	ctatagcctt	300

<210> 1316

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(300)

<223> n = A,T,C or G

<400> 1316

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ctgtcgcgtt	gttgtcttct	aaacaaaaaa	atcttttccc	cgggtctctc	taccttcgtt	120
tttttctctt	ttacctctca	gctcaaaaact	cagaatccta	gacttttgac	tagctagtgt	180
aactcggtat	ttacttccac	taatgtctcc	tcccagttga	tgcccagggtc	tatcgagttt	240
gatcttattc	ttaagagata	gaattgggga	gtagttcttc	catccagtat	tgggtaaccg	300

<210> 1317

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1317

aattccggtt	ctgtcgtcac	aggagagtct	agttgtaaac	cgaagcaag	gatggtagct	60
aatatcgag	cagtgtttgt	aagaggattt	ttagtttgtc	atgcttaaac	agaccctca	120
gtattctcac	agagaactga	agcaattcat	tttcaagact	aacaagagca	cagcatctgc	180
atgcatgtgg	caggtatgtt	agtgaatgtt	gtgaagtagg	tgggtccatc	agttgtcatg	240
gttcacctct	gtccagactg	tgattgtgtg	actcgcagtt	ggcacttcag	caaagcttag	300

<210> 1318

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1318

aattccggtt	ctgtcgtcta	gttcacaact	cgaaacctct	gatcatgttc	tgtagagtac	60
acccgctcaa	ctgatccaat	gcaaccaata	cagtattgga	agctttctac	gaacaaggca	120
cccagagagg	gtcggagga	agatgacagt	gccaacgggc	acagggagaa	tcgtgagctt	180
actgcacctt	cccagcaggc	agagtgagcc	cgtaggacaa	gagccccctt	tctccgtttc	240
ccatctgccc	tcagccccg	aggaacggtc	cattctacag	acaagaggcc	tgagggtcag	300

<210> 1319

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1319

aattccggtt	ctgtcgtaga	atttgacgtt	gtttgggtca	acttctctta	tattcatcct	60
gtccccatt	ccctataggc	tctaattgtt	gtctctggtc	acatgaggta	atgtgagttg	120
gatgcagttg	gatcagaagg	agtttttgct	agaagaaaaa	taaatcccaa	agcacaaact	180
gtactaatgt	tgggttctgt	ggtatcatct	ccatatccat	aaatcacatt	tgatttggat	240
gccactggaa	atttaattggc	ttaggaaggg	atgggtttca	tatgcagagt	gaaactttaa	300

<210> 1320

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1320

aattccggtt	ctgtctagca	gtggctgcta	cagggaatta	ttcacatggc	agcaagagag	60
ccctggctcc	ctggaccagg	acattccctt	tgtgtgtgtt	ggaatgagag	caggaggagt	120
gtgggtcaga	agccccctcc	cagggtctctg	ggacttcagt	gttctcagac	aaactgggccc	180
gtcctcttga	gctgggatgc	tgaccacac	ttggccccgg	ctctggcatc	cacaggacgc	240
tgcccttatcc	gtcatctcgc	tggggctggg	ggctagaggc	tgagcaggtc	acactgaaca	300

<210> 1321

<211> 270

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(270)
<223> n = A,T,C or G

<400> 1321

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gccagcgagg	atgaggactg	aggctcaatt	tggagacacg	ggcctatgtg	acctcagggg	120
gcaggcgngg	ggagganttc	netcttatgg	ggntcatggg	aacaggggng	ggngngactt	180
gcttggnggc	ctcattccat	gtnggcctgn	gcctggggca	tggacnntgn	taagcanagn	240
cagctgngag	gncnnttc	tncagacgtg				270

<210> 1322
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1322

aattccgttg	ctgtcggcag	gactcctatt	ggcacagatc	gaaaccataa	tagatactgg	60
ctcttctcag	atgaagtcc	aggattatcc	attgaaaaag	gctgggtaca	tgacagcatt	120
gactaccgat	tcaaccatca	ctgcaaagac	cacacagtct	ctgggtgatga	ggattactgt	180
cctcgagta	agaaagcaaa	cttaggtaaa	aatgcaagca	tgaacacaca	acatggaaca	240
gcaacagaag	ttgctgtaga	gacaaccaca	cccaaacaag	gacagaacct	atgggttttta	300

<210> 1323
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1323

aattccgttg	ctgtcggcat	atcccaagag	gacattgccca	ggatcagcaa	ggacatggag	60
gacagcgtgg	ggctggattg	caaacgctac	ctgggcctca	ccgtcgcctc	ttttcttgga	120
cttctagttt	tcttcacccc	tattgccttc	atcctttttac	ctccgatcct	gtggagggat	180
gagctggagc	cttgtggcac	aatttgtgag	gggctcttta	tctccatggc	attcaaactc	240
ctcattctgc	tcatagggac	ctgggcactt	tttttccgca	agcggagagc	tgacatgccca	300

<210> 1324
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1324

aattccgttg	ctgtcgggac	atgaaggcct	gccaggagga	cgatgtgcgg	ctcctgtgcc	60
acctcacgcc	ctccatctac	acagagtttc	cagatgaaac	cttgaggagc	ggagagctgc	120
tgaacatgat	cgtggctggt	attgactctg	cacagctcca	ggagctggtc	tgccacgtga	180
tgatgggtaa	cctggttatg	tttcgaaaag	actcagttct	caacatactc	attcagagcc	240
tagactggga	gacctttgag	cagtattgtg	cctggcagct	ctttctggcc	cacaatatcc	300

<210> 1325
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1325

aattccggtg	ctgtcgggca	gcagctgctg	ggtatttgag	ctgggtctgaa	aggggtggagg	60
tttccagtga	tgtcactctc	tggcaggatt	gtgggggggtg	gcttacgccca	ggtgagtcctg	120
tctattgggc	ctgggttatgg	gcacttatta	ccaggcagtg	gcgtagggggg	tagggcctgg	180
agtgaggtgg	ggatttttaa	gtgagcagat	gccagaggta	gtgagccaac	agcagggctg	240
tgctcttggc	ccccagcaga	gcatggttgt	atagtatcag	ctgaggattg	gttccaggat	300

<210> 1326

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1326

aattccggtg	ctgtcgggtct	atttactgtt	cttactaaga	actatatattt	aggaggattg	60
ctcatccact	tgaaggcaaa	attggaactg	agaagaagag	taaggtagtt	tcttccctgg	120
gtgatccaca	ctgagacag	agagagctgg	accaggatag	gactgaagga	ggactgaggc	180
tgagagatgc	agaaagcgct	gtcaggggaag	gatcccttga	gatggcaata	ggacctctaa	240
gtaggcgtgt	aacagacaag	gggagagcgc	ccttctccac	aatgcagggg	ttttatcatt	300

<210> 1327

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1327

aattccggtg	ctgtcgaaaa	gaagttaaaa	cgttcccaca	ggcccctaaa	agtcttgtga	60
gttctggcat	tgtggttcac	acatcagatg	cccaagttgg	ccctgggtccg	cagcagagga	120
gggctttgat	gggacttagg	gtatcacagg	tgtgctctgg	ctggttgtggg	gaacagactg	180
taggcagcca	gtgtggaagt	gcagggacct	ggaaggggtt	gactgcactg	gccttgggaag	240
gccctggtaa	gaggtgggtga	ggttgaaaat	aaggttgggg	gggcccgggcg	cggtgggtca	300

<210> 1328

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1328

aattccggtg	ctgtcgccgc	tccgtggcca	caggtccccg	caagaaagac	cccgtcccac	60
tctctgaggt	ctcctcccag	ctccagaaaa	ggggacattc	cacctagtct	gccaacaag	120
taggtctcag	ccactgtgcc	aggagctcgg	gactccctcc	ctccagaggt	ttctggaatg	180
cattcagcag	gaaaagctaa	aagaacagga	ctccaggaga	taagccaagg	ccaagtctat	240
cagaggggtga	gccagcagcg	ggaagggggac	cagcccttcc	cctagcgttt	tttctgcccc	300

<210> 1329

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1329

aattccggtg	ctgtcggcac	agtgtaccgc	ggggagactg	cctccctgct	gtgcaacatc	60
tctgtgcggg	gtggccccc	aggactgcgg	ctggccgccca	gctgggtgggt	ggagcgacca	120
gaggacggag	agctcagctc	tgtccctgcc	cagctggtgg	gtggcgtagg	ccaggatggg	180
gtggcagaac	tggaagtccg	cctggaggag	gccctgtcag	ccgtaaaaact	tgtggggccc	240
ccgaagcatc	gcttgaata	cacagcttgg	gccaagata	aagcgtgtac	caatggcccc	300

<210> 1330

<211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1330

aattccgctt	ctgtcgtgct	gtgcaagttg	tcggttcgtg	gccttcctgt	cagccgcggg	60
aggcaccgcg	ggaagcaatc	cctgagcgag	gcaatgggtt	tgcctctctg	tctgccaggc	120
tctgcgcctt	gcgcccggat	gacagcagct	ccgcccgcac	cgagatccac	ctgctcttcg	180
atcagctcat	ctccgagaac	tacagcgagg	gcagtggcgt	ggccccggag	gacgttagtg	240
ctcttcttgc	ccaggcttgc	cgactggtac	ctcttaatac	gaatcatctt	gtcagcaaag	300

<210> 1331
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1331

aattccgctt	ctgtcgcgag	tttatgatgt	tacaagtcca	ttttgggaga	gaactgtaca	60
ctttttgcag	gaccacagaa	ttagtaattt	aaatgatata	ctaaatttgt	gtatgggcat	120
aagtattacg	ccttcccacc	aggcaatttg	gactgtcttt	gaatcctgtc	tttggtactg	180
tcttggacat	gttcttaata	tgaacctctg	cttcttcac	tggatcacac	tataccccag	240
acttaatgaa	tttcagcttc	caggagtggg	gcctgaacat	atgtattttt	agtaagacca	300

<210> 1332
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1332

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cactgttttt	gcactttacc	tccctaccag	cagctctttc	cagattgcag	gggcgagctg	120
gtgggaagct	tgcagattgt	ttcgcaactg	cgtgtaattc	gtgtgcttgt	cactgggggtc	180
tgttcttctt	tgagttggta	cagtgaataa	tgcattgaga	gtcccagggc	agtcattgcc	240
actgtacttt	gtgggctggc	ttgccttctt	tattatttct	tctttaaaat	aaaagaaaat	300

<210> 1333
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1333

aattcgcttgc	tgtegggtgga	accggcccca	ctaacctgca	tccagctgcc	tcttccacct	60
gggccttgct	ctcagatgga	agtgtcacca	aacaccaga	tgcctgtgct	cctgcttctc	120
tggagtggac	acaacctgaa	aaccaactgg	actgagcatc	cttctcctaa	aatctcagcc	180
agaagccacg	atggagggtc	ctgggaaggg	aagagatgtg	aagatttctg	tgattctaaa	240
accttgggtc	tgcttgcaaa	cttctctctg	atcccagccg	agagctgtgc	acacgctagc	300

<210> 1334
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1334

aattccgctt	ctgtcgcaga	aagtgcagtt	gacagaaggg	tcacgttcac	actacaatat	60
caattgcaac	tcaacaagga	ctccagtcgc	caaggagctt	aattataatc	tagacactca	120
tacgtctact	gggaggatca	aggcagctga	gaagaaggaa	gcgtaatgta	gaaagcaaca	180

gaaaaaagga aacggaactt cttggctctt tttctaaaaa tgaatcagtt cccgaagttg 240
 aagccctgct ggcaagatta cgagctttat aagttaaact ggtttttaaa aaaaatgatt 300

<210> 1335
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1335
 aattccgttg ctgtcgaaaa aatctgtagc accgggcatg gtgcatgcct gtaatcccag 60
 ccactcagga ggctgaggca gggaggatcc attgagccca ggagtccagc ctggggcaaaa 120
 tagcgagaga ccctgaatct gaaagtaatg ataaaataaa aagaatataa atgagggtctc 180
 gttgatgctg gacaattcaa gaattcagac ttgaacctta aacctaggaa aagttacttt 240
 gtatcaggat tctaacaatt atgcttcata tttgtgaagt cctttaaaac ataattttct 300

<210> 1336
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1336
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 ccttggcagg tgccgtccac actccagcac tcagggaggg gcggtgcaca tcctcaaaaa 180
 ctgaccacac tggcactggc gcccgaggtg tgagtagggc ggctgtggtc tgcagacaga 240
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<210> 1337
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1337
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 aaaatctgag cacttaggtg aagggacaag cagggtttatg tgtttaaaca gaaagaaggg 120
 aaaaggtact atgtgatatg gtactgaaat tttgatccca atagaattca tttctcttac 180
 gttgaatccc caatcataat taagccgtat acacagatta aattaacaga agcatttcac 240
 ataaatgttg gtttcagtca tcaactaccc atgaattcct gcccaggat acttaatcag 300

<210> 1338
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1338
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 ttgaagagaa aaaatacctt gctggggcag acccttctac tgtggaaatg tgttaccctc 120
 ctatcattca gagtgggtggc aactataatc tcaagttcag tgtgggtgagt gacaagaatc 180
 atatgcactt tggggctatg acttgtgcca tgggtattcg cttcaagtct tactgtccca 240
 accttgctcg cactttgatg gttgatccct ctcaagaagt tcaagaatat tataactttt 300

<210> 1339
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1339

aattccggttg ctgtcgggttg tcacatcctg acaggggttcc ttataaggat ttctcttccc	60
ttgtgttaga attacagagg atgaaagtat tttaaaatct ctgttgctga acagggacat	120
gtgctaggca gcctacaatt gtcagtttta ttccataggt acgttagtgg tcagaatgac	180
ttcttttttg atggcacaat tattttcata atattagatt gaattaagct ggtgagacaa	240
tctgacccta aaagattcag aaaatgacgc tttgatgtta gctttgaagc agggatttcc	300

<210> 1340

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1340

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cctgttaagt cttcaaataa tgtggcttca aagattttta aaacttttgt agataggaaa	120
aatttgggag ataatactat aaatatgcca ccattgagta ccatcgatcc tagtgggacg	180
cgatccaaaa atatgcctat taaagataat gcttttggtta tgtttaatgg gaaagtctat	240
ctgttggtta aaaaggggac agatgttctg ccatacaaaa ttgaccaaca gaattctgtt	300

<210> 1341

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1341

aattccggttg ctgtcgaaga cctttatctt gctttcaggg aacttgcagg taaccaaaca	60
gataagactt gatggatgaa ataaccacag tcagtgttag agttaatggt gtatgcagta	120
aggggtgaaat aaaataatga aagcccatag gtattttctaa gggggctttc tagattctac	180
gattgatctt tcatattttc taccttccac tttaaaaaa aaggcacatt agccagacat	240
cccaaatagt acattgtggt gagaggcctt ccacaccacc agagagacaa atcagaatgt	300

<210> 1342

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1342

aattccggttg ctgtcggacg gggttctcac catgttggtt atcctggtct tgaacttctg	60
accccaaatg atctgcctgc cttggcctcc caaagtgttg ggattacagg cgtgagccac	120
tgcgcccagc cttgaggtag catactttct gaaataaaaa agtagattat gtccgaagca	180
gttgacctaa aaactgcctt ggactgacat ttgttaggtg gtctaagatg ttctcttcac	240
gctttgcaaa aaaatgagct tttttggagt ttaaatgaag catccctctg gtgtgtttgg	300

<210> 1343

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1343

aattccggttg ctgtcgggtga ggagaacatg gatatggatg taatgtcctt cctttttgtt	60
ttctttgcac aaatttcagt ggaaacatgt tgccaagtca gatcgccatt ctacttgagt	120
gaatatggaa tttgtccagt tttccaaatg cagagctttt tgtgggctga tggactgaat	180
agaaagagga acaaccatac acccttctac agatgaaggg aagattttat gaaagcgact	240
tcattcgttc tcctctgcct ggtgttccct ctttgtaaac caggaccagg gagctttgaa	300

<210> 1344

<211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1344
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 gcatgggctc tccatggaaa ttatgtgggc gcgaatggat gtggctctgc gctcacctgg 120
 gcgaggactt ctggccggtg ccggggcact ctgcatgacc ctggcagaat cgagctgccc 180
 tgactatgaa aggggaagaa gagcatgcct gaccctccac cggcacccca cccctcactg 240
 ctccacctgg ggctgcctc tgcgggtggc tgggtcctgg ctgactgttg tgactgttga 300

<210> 1345
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1345
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 ggactctgca ggaagaggag aggtggtgtg agagcctgga gaagacactc tcccaaacta 120
 aacggcagct ttcagaaaagg gagcagcaat tgggtggagaa atcaggtgag ctgttggccc 180
 tccagaaaaga ggcagattct atgagggcag acttcagcct tctgcggaac cagttcttga 240
 cagaaagaaa gaaagctgag aagcaggtgg ccagcctgaa ggaagcactt aagatccagc 300

<210> 1346
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1346
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 tcttcttctt gactccaggg ccacttgacc cctaagggcc cttctttcac tctgggtctt 120
 cagagtgtct cagccttcac ttccctttgt gtctctagaa atttacttac actcattatt 180
 ttccatcttg gtttgagatt gaacagggtt atctccccca ttactgcaa ccccaaaaag 240
 cctgggtttc tggagcgtcc ctgccttttt catttttgct tccagaaacc atatacagct 300

<210> 1347
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1347
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 cgagaaaata ggtcaacaat ctgttggtgg gaaaccacct ccatgtaacc cactggatac 120
 agtccccctt atgtttttgc ttctaaattg taccttttgc ttctgatttc ttctcccctg 180
 ctgtttcctg cccatcagag aggcctgata caagcaagtt tgtttacatc cctggggaat 240
 cttttacatc aaacttttgg gatccaaatc catctccttt taaatttcaa tctcagcacc 300

<210> 1348
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1348
 aattccggtg ctgtcggcct tttaatagtt ccagtggagt gagagctgga tgagggtgggt 60
 acaacagaat catcaaaaat ctggccggtg atgggacctc agagtcactt gaggaagcaa 120
 catttgagca gcacttagga gccttctggg aaaagatgga gaaaactaaa gacgttaggt 180

ttattgcaaa ccaatcaatc atactcactg atcacctact agaggaaacc tgtgataaca 240
 cttgtgggga gatttataga aagaagacgt atttgacacat caggatttta catcatgatg 300

<210> 1349
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1349
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 cagcctgtat ttaacaggcc aggaatgtat aatcctgttt tcagagagaa gcaccaaaca 120
 caaggaacaa taacaaagac actgtggagt gtcctaagag gcttggagcg gtcataaaat 180
 aaaactgtac ccatgaatgg atgaccatgt agatgggtca cctctccttg cgacctaaact 240
 gaaaccacag tagaaccaca gtagaaacca cctccaagtg aggttcctac aagttctgtc 300

<210> 1350
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1350
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 gctatcttca agaaccggaa gagaccactc ccacccccac cccgcccctg ctttcgctct 120
 tctctgcaat ggggtctccg aaaggagaag actgcagccc tgtgaccctg gaggtttgag 180
 ctctcctatg ctgtctcaaa aaactgcctc cttctaggca agggcttcca aaccctcatc 240
 ctgatctcac cttcagcctt acccgccagc tatgatccac tcgactgtga acttaaactc 300

<210> 1351
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1351
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 catgaaatga aaccagtttt aaaacaacgg atgtcagagt tcttgaaaga ctgtgcagag 120
 cgaattataa ttttaaagat tgtccataga aggataatca acagattcca ctccctttta 180
 ctctttatgg gccatccacc ttatgcaatt cgggaagtga acataaacia attctgcagg 240
 attattagtg aatttgcact agagtatcgc acaaccaggg aaagggtttt gcagcagaaa 300

<210> 1352
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1352
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 aaaggaaaga ggctgctggt ttatggtata gagattttca ctcgtaaga aagtaacaaa 120
 gtaagggaag aggattattg tagaaatatt attttacagt tcaagtttgt aaaacacagg 180
 tgaaggtaat cgttggtggg tctcttcctc tgagatcacc aaattatctg tagactggtt 240
 ggtagacttg gagagaccac ttgttcttgg acaacagtta gaagcatact gccctaagca 300

<210> 1353
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1353

aattccgttg	ctgtcgatc	tcacgtgttg	ttcccctccc	gttctccagt	ggcaggacct	60
ccacctgaag	gagaacgtcc	ctccttccct	tttgtccctg	tcccgcacct	tctacctgat	120
agatgtgaag	cccaagccga	ttgagatacc	actcagtggg	gaggctccaa	agactgatat	180
tcttgtggaa	ttacctactt	tcactgaatc	taaagagaac	atggtggatc	ttgcacctca	240
actgaaggga	actaaggatg	aagactttat	acagccgcca	ccagttacat	catcacccat	300

<210> 1354

<211> 217

<212> DNA

<213> Homo sapiens

<400> 1354

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tctcaacatc	aaatgtgaca	acagccatac	aggctttaca	aatatgtaga	ctggcctagt	120
ataagagaac	agggagtggg	cacatattta	gcgcattgca	atgggcataa	atacctgaag	180
ttacttgacc	cgtggaagag	cccttgacag	ccatata			217

<210> 1355

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1355

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aagaatgagg	ctatagtgat	gaaagaagca	agtaggcaaa	aaactgtagc	tttaaaaaag	120
gcattctaaag	tttacaacaa	aaggcttgac	cattttacag	gagctattga	aaagcttact	180
tcccaaatata	gagatcagga	agccagggtg	tctgaaacaa	tttcagcttc	caatgcctgg	240
aaaagtcatt	atgagaaaaat	tgtaatagaa	aaaaccgaat	tggaagtaca	gattgaaaca	300

<210> 1356

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1356

aattccgttg	ctgtcgggac	ttgtaagagg	acatggcaac	ctgtgagccc	agactggatc	60
ctggaccaga	aaaaggacac	tagtgagaca	actggcagaa	tttgcataag	aagcacggcc	120
tgggcctcgg	gtggtggagt	cactgctgag	cccatgacgt	tctgcttata	ttccatccct	180
gcatttggaa	gtcgttcttt	gccaggagga	aagtgaggaa	aaaccagcaa	taacaaaaca	240
gcagctctac	tgacggagga	ggaggagccc	aggaggcggc	tggtcagggc	ccaggtgtgg	300

<210> 1357

<211> 288

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(288)

<223> n = A,T,C or G

<400> 1357

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aagatgcagc	ccagggaggg	accatgtggg	ggactgggtc	aggtagtgag	tccccacttg	120
gagcctctgt	gatcccagac	catcatggag	gagcagctgg	tactgaagcg	ggtggccaac	180

atcctcatca acctgtatgg catgacggcc gtgctgtcgc ggnccatccg ntccatccgt 240
attgggtccc caaccacgac cacgangtta cttgtncnan accttttg 288

<210> 1358
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1358
aattccggtg ctgtcgggct gaaaggccta cagattaaaa actaacactg cctccccctgc 60
agtgagatag tcctttcatt ttagctcctt gcattgaaat agcattgagg attaaatttg 120
tgtaagcccc acaaaattca aaatttatgt gcttttctga ccacttgctt tctagtggaa 180
attttaagca tattagagga tatgtttctg tgggagctga tcagaatggt actaggagta 240
caaaagaata tctaaaacta aaacacagct atatttcaga tcatactgct tcatcacatc 300

<210> 1359
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1359
aattccggtg ctgtcgaaaa catctattct gatgtcagag gactatctca gaaccagcaa 60
atacctcaaa attctgttac gcctaggaga ggaaggagaa agaaagaagt taatcaggac 120
atactagaaa acaccagttc tgtggaacaa gaattacaga tcactacagg tagggaatca 180
aaaagattaa aatcatctca gctgttggaa ccagcagttg aagaaactac taaaaaagaa 240
gttaagggtt catctgttac aaaaaggact cctagaagaa ttaaaagatc tgtagaaaat 300

<210> 1360
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

<400> 1360
aattccggtg ctgtcgggtg cactgcactc cagcctgggc gacagagcaa ggctctgtct 60
caagaaaaaa aaaaaaaaaat cancnttttt aaanccgatn tactttntat gttncntan 120
ntgggnaana cagnaatgag ngggtnaagg cattgngtcn aaaaanatgng ggggnancct 180
gtngnacttg aangnaatch ttcntaatt ttncncnta aananggnat taatanccag 240
cnccacnct gngaggaaaa attttgnaan gcccctnttt tacgggaaaa tttaaaaaaa 300

<210> 1361
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1361
aattccggtg ctgtcgggtg gattgagggg atgctgggaa tgtgtgtaaa cacatacata 60
tgttgcatg tgttacctta attgacctat acagttcttg agtacaagat taaaacctgt 120
ttctgagtat gtgattgtat caatgagggc tctttctgat gtaaatattg agaaattcaa 180
ccttagttgt ttttaagtaag taaaaagaag gtttattgat catctgattg aaaaacctaa 240
ggcaggggcta gctatagatg gttcacttgg gccagtttct tccccagcat cctccttcat 300

<210> 1362
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1362
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 cttgtctttc ctactattgc tacaatagtt ggtaaattga tgttcagtag tgtaactct 120
 aatttacaaa ggacaatctt ggggtggaatt gcgtttgttg ccataaaaagg agcatttaaa 180
 gtttacttca aacagcagca atatttacga caggcacacc gcaaaattct gaattatcca 240
 gaacaagaag aagcataaaa ctgacttctg gttgttctgc agttctctca tccttatgaa 300

<210> 1363
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1363
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 gtggcatcca tggccctgaa acgacaagcc catgttgcca gcgcattatc accaagtcac 120
 ttggcaagcg tttagcagac tactggtgcc tggatgatct gtaccgggag atgggtgagat 180
 gctatgtgga aatcggtgag aagcttccag aacgccggcc agaccagct accattgaag 240
 gctgtgctca gctaaagccc aataactacc ttctcgctg gcacacaccg ttcaatgaat 300

<210> 1364
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1364
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 aatttctgaa tgctctcag aacgccaaact caggcagaga atctcaccga aatagagaag 120
 aagctcatgc tcttggaaga aacagcccga ggagagccgc tgggccacat ctggccactg 180
 tccgcagcgc tgtcagattg ctggggccac atctggccac tgtccacagt gctgtcagat 240
 ccaaggagag ccgctgggccc acatctggcc actgtccaca gcgctgtcag atgccgacca 300

<210> 1365
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1365
 aattccgttg ctgtcggatg aggggtcttc agctcgggtca agaattgttg gtttcccttc 60
 ggggtccagc tctcccaaca tccttgccag ctttgaggag aagaacagag tatgggtcat 120
 ctgagccct catgcctcgg aaggctacta ccgcctcatg atgagcctgc tgaaggacga 180
 tgtgtactgt gagctggcgg agaggcacat ccaacagatt gtgctcttcc accaggcagg 240
 tgaggaagga ggcaaggtga gaaggatcac cagcgagggc cagatcctgg agcagccct 300

<210> 1366
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1366
 aattccgttg ctgtcgggtgc aatgatggct gggggaatcg tcatgactgc caatctcaac 60
 atcaattata aaagacctat ccctctttgt tctgttgta tgataaatag ccaacttgat 120

aaagttgaag gaaggaaatt ttttgtttcc tgtaatgttc agagtgttga tgagaagacc	180
ctatactcag aggcgacaag cttattttata aagctgaatc ctgctaaaag tctgacataa	240
agagctgctg gtgaactcca tctcattctc gcccctccag aagaagcagt tgccccccaa	300

<210> 1367

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1367

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gagtggggaa tcagcccaaa gccaggcgtc cagggtctcc ctcacctgaa gctgactttt	120
tccccacctt ggacagaggg cgggagatgc catccccact gaaccagtg ctttcaccag	180
ccatattagc tcccaactcac cccccgtcgt ggaagcctcg gccgtcacac ctgcaggggc	240
ggggcgctgca tggcctcagg gatggcctgt tcagctgctg ggtgactcgg gtccagggtgc	300

<210> 1368

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1368

aattccgttg ctgtcgggtgc aagcgagcct gacgctgtcc acgtcgtgct ggaccgccac	60
ctggtcacag gccagaatgc cagctccacc gtcccggcgg tgcagaacct gctcttcttc	120
tgtggcagcc ggtgagggca ccagggtggg cacattcctg ccacatcaga gctgcaccgg	180
gtgcttttgc ccaagctttg accacacgtc tgtcctgcag gaaatgaacc tgctgggtag	240
atgcaccccc tgagacagcc cagggtgtctc cagaggcagc cccgtctcag gcttcaggga	300

<210> 1369

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1369

aattccgttg ctgtcggcctt tcgccatctt catccctaact taactgtgctt ccgtccctt	60
gggtcccagg atcccactcc ttcgatgaaa ctccagtcttc catctctgcc tgggtgcttct	120
gccctggttt ctgtcaact cggcgccgtg tctctgttcc ccaaagtctt gtttctgttc	180
tgtgctgccc cttccccctg cccccgtttt ctctttttta agagacaagg tctcggccgg	240
gcatgatggc tcacacctgt aatcccagca cttggggagg ctgaggcggg tggatcactg	300

<210> 1370

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1370

aattccgttg ctgtcgcagt cttcctcttt gtctcatcag actgttatca ctgagggtta	60
gatgagaaaa tctcaaggct gtctgtcttt cctaggccag ctgctggca caaagccaag	120
aaggttcagc tgacccttg acagacagag gtgaagattg acctgccgtt gccattgtg	180
gcctccaatc tgatgattga gtttgcagac ttctatgaaa actaccaggc ctccacagag	240
accctgcagt gccctcgctg tagtgccctg gtccctgcca acccaggagt ctgtggcaac	300

<210> 1371

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1371
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ttggagctca gaattacttt ttaagggaatt actttttaag gattaaaaag atttgtgggt 120
gcttcgtggc tttgagaaga cagtagagca ttttcaggaa ttaatgaagg ggagagatgg 180
ctagaggaga gggtagagaga gacttgagtt cttggctatg actatcaggt aaccaaataa 240
aatgccctgt ggaaatgggg accactgatg gaccacaggc atgctgcaca gttgatagct 300

<210> 1372
<211> 263
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(263)
<223> n = A,T,C or G

<400> 1372
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tctttagaag tgtcaatgtc atgaaaaaac aaagactgag gattcgtccc agattgagag 120
actaaggggc caccaggact aaacacaaca tgggaccctg gactaggaaa gggtaggtgag 180
tgggacggnc annnnggggtg agagggacng aaccanggnn nnnngcnatg cnannacggn 240
nnnnnnngcg ggncnnanaa nnc 263

<210> 1373
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1373
ccatcgattc gaattccggtt gctgtcggca tgtcccgggtg gacaggtgtg gaagggactg 60
accctgccac cccgcggatc tccccaggct tctgagttgc tggcggtttt ccttccaact 120
gcagtccgc agtcctctca gccatgggccc acacccccgg gtctcagacc cegtgtttgt 180
tttcatgccca ggaggcagct caggggaaggc caggagatgg ggtgttccca gtcatgcccc 240
tggcatctct gctcctcggg gccccacctg cctcgccctg tggcctgagt cccttcagct 300

<210> 1374
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1374
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tttaaataaaa ttcagcaaat ggatagcatt gttttttatt tgcttcaata tgggggtaga 120
taatagctaa agagccaagg atgaatttct tcaaatagact ttattctgtt agctttacat 180
aggtgttggg ggattcctaa ggtgtcagca ttttgtaaag gtaccacaaa ggagaagttg 240
ataggggaatc taattttaga atgtgccaaa tggctctgtg tcaacaatat aattgaactc 300

<210> 1375
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(300)

<223> n = A,T,C or G

<400> 1375

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caaataagng	tttacgcnga	aggaccttnt	ntganntgnt	ntttgtaaac	nnnnnnntnn	180
gnttttntnc	cggnnncnna	cnntnggncc	cccttnanaa	tnnncnnttt	nggttttnaa	240
atgagggacc	nntgaanggn	ntnaaaatnc	cnangttacn	nttnacnann	tnaaggaatt	300

<210> 1376

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1376

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gatacatgag	tattccagtc	aaataatata	tataaaatac	cagatagagt	ataaaagaca	180
actgaaggac	aacagagtga	tgaaaggact	ttattaggca	tttggatttg	gttatgattt	240
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<210> 1377

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1377

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aaaataaaaat	aactttctac	ctctaaattg	aggcttagga	gtaaaaagca	ttttgtccta	180
aatttatcat	ttaaaatagc	atcagtaact	ttttagctca	tgtcaatcaa	gcattggcag	240
tcagagattt	tataggaag	actaagtaaa	tccagtttcc	aagaacctaa	actgattgag	300

<210> 1378

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1378

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tatgagccat	ttcctgaggg	ccaatttaat	actcgtgtga	ctcttcttag	agttaccatc	180
tgccttaaat	ttcctctgtt	tttcacatcc	ttggaaatat	atcattgttt	tgcaaatttc	240
tatatctaata	tcagggttta	ccaggagctt	aataattaat	ggctacatag	caaggcatcg	300

<210> 1379

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1379

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agaaacgaag	gataccaaa	gtcgttattt	tatagtggaa	gctgacataa	aggagtccac	180
aactttgaaa	gctgacaaga	agtttcacgt	gttactgaat	attttacgac	actgccggag	240
gctatcagag	gtccgagggg	gaggacttac	tcgttatgtt	ataacctgag	tcccttgtga	300

<210> 1380
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1380
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 ttgtcctagc cttggggctc cccaagactc tgttcttgcc actgaggcta cttcttcctg 120
 aggaaaaata aatgataaca gctgataagg gcaggccatg aaaaaagagc agtcctagcc 180
 accccagcac catcactggc aggctcccag gtgtaccctg catcacaaga gcttcccttc 240
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<210> 1381
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1381
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 aaatcttaca atgagcatat ggatggctat aattgctgag gtttgttttt ttttttcata 180
 tttgctaact cgctatatat aaaattgggt ttctatttta tagatttcac accctgaaaa 240
 ctgctaattt ttgcatgcat atgattttca catgaatgga tgaaaataact aaaatctctt 300

<210> 1382
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1382
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 acatgtgcc acaaggatgg catggcccgg gagggtccca ccacgtggct ttcacccctt 180
 gcaaagccag acttcgccc a gacacagc gtcaagccca cagctctcca aggaggaaga 240
 tgggtccaggc tgggagcatc cccttagcag cagcctctga tcccttggcc aagcaggagg 300

<210> 1383
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1383
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 tcatggctct ggtgtcaaac actataaacc tttgaccagc tgagctgtga ctgctgtcac 180
 atatctgagt cctgtgtgca cagtaatatc ctgggtcagg taaaatccag gtcttcaagt 240
 ttttaaggatt ttttgaagaa ttcgggcttc ttttaagacga tccatgccc aatccacaag 300

<210> 1384
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1384
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cttggcaatt	ctgaggagt	gattacatgt	tgtatgtagc	tcgtaacgaa	agaaatcttg	180
tctttgctct	cagaccccca	tttcttactc	atctcatgag	ctccttcgag	atccagaaac	240
agttgcatat	ttcattagta	aatcagttcc	agagtcacat	tttatttcac	aagttagttc	300

<210> 1385
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1385						
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tgaatacatg	taacactttg	atgctcctgt	ccccatgggt	tgatgaagta	cttaataacct	180
tgaatgctat	atattattatc	aaattttgaa	tgaaatcact	agcctaaata	caagtggagat	240
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<210> 1386
 <211> 265
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(265)
 <223> n = A,T,C or G

<400> 1386						
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agcccttcat	tcactcctc	attgcagacc	agctttcctg	gtattcatgc	actgcttttt	180
gtaacgcctc	aaatgaaagc	cacagctcag	ccaagtagaa	gagagctcct	aataaatgaa	240
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<210> 1387
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1387						
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gctgggtgga	aatggatttg	gcagtctcgt	ttttcgcac	attggaatgg	gagtccttca	180
cagttggaga	caggatgaag	taacagagcg	tggggatctg	gattaacagg	tggccattcg	240
cagaaaggag	gctgcaaagc	aagaggtggg	ggcttctggc	tgagcaggaa	gggtgggagag	300

<210> 1388
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1388						
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atgcatggta	gaaacatttc	tttaaggatg	accggatggt	gccgtatgta	tttatggcac	180
aagcagggtg	tgtctaagca	gtttctctgt	ttgcttgctc	tagcagcatt	tggaaactca	240
aacatgcttt	catttacata	aatagtttat	gaagctttga	caacaaatgt	aaacagacac	300

<210> 1389
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1389
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 aattagcagc cccggggcct aaaggaatca gctgtcatca tttcatcat tattattttg 180
 gttaggatgg cttgaaaatc agaacgtatc ttggtttacg taattgaggt cttaaagaac 240
 taagaacagt taaatagtca caactaccac cctctgactt acataatcat tgggtggtggc 300

<210> 1390
 <211> 287
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(287)
 <223> n = A,T,C or G

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 ctganggaan tgaanaggna aggagttgtg ctgatatnta ggaggaggan tntccaggc 180
 anacggaaaa nagggccaaa gtntttgagg aaggggcntg ttggccntgt tcacaggaca 240
 gcgaggaggc caaagtgggn ggagcaaaga tcccaggggg agaggca 287

<210> 1391
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1391
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 gtccctgaat gggtcctgt gtggatctca gtgtgtgtgt ggtttctcca ctccctccccg 120
 ctcatgtccc acacctgcc tattgaaccg tttctgcact aatcttctcc acgggcacgg 180
 agtggaggga acgtcttggg aaaggggaga gcttgacctc catctagggt tcttttatct 240
 ggagaaaaag aacacttttg aactatgtaa tgcttcgccc tgaaaggcaa gctaacgcta 300

<210> 1392
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1392
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 aacctctagt acagacaacc ccaagggttg tttataagtg gttcctgcta atctataaaa 120
 tcagctatgc cactggcatt gttggtetaca tggctgtcat gttaccctc tttggtctta 180
 acttattatt caagatcaaa ccagaagatg ccatggactt tggcatctcc cttctcttct 240
 atggcctcta ctatggagtt ctggaacggg actttgcaga aatgtgtgca gactacatgg 300

<210> 1393
 <211> 300
 <212> DNA

<213> Homo sapiens

<400> 1393

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tgaaaccctt	ttttctttct	tttcattgtg	ataaaaaaat	cagcatatat	gtgactaatc	180
taaatgagag	attgattgtg	tgagaccact	gaaaacaagc	atatgtgagt	gattccatac	240
tgatttttgt	tttaaaattg	agcacgtttt	aaaaattttg	taaggctcgg	cgtagtgggt	300

<210> 1394

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1394

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accccttaag	tgggctgaag	atgtaaaagt	taacctcttc	caaactagat	gctttgaggt	180
tccagctgtc	actgagaaca	gcttggttagc	tggtgcagcg	taccagcgtg	cagaggcagc	240
attgttcagc	tggagcctca	ctgctggagc	ctcatctacc	agagggctcc	ttccatactg	300

<210> 1395

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1395

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cagaatagcc	tcgatgcccc	ctggaacagc	ctcggtgccc	cctggaacag	cctcgggtgcc	120
ccctggaaca	gcctgggtgct	cctggaacag	acacagcccc	cccagaacag	acacagcacc	180
ccctggaaca	gcctggcgtc	tcctggaatg	gccacatccc	cccatccttt	ctgtgctgct	240
ttaggcattc	gcccttacgt	ggttcgtgtc	cagctctgtc	aacaaggcca	gctccacaag	300

<210> 1396

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(300)

<223> n = A,T,C or G

<400> 1396

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tagattaaat	ttagctggta	gttttaattt	gggttttagt	taagagtgtg	aggacatcag	180
gaaaactgtt	tactactttg	gttttagcag	ctcagtttta	ctattccata	atgtgttatt	240
tttaaagttc	tctttttaag	atcacagtga	tatcctatct	tcaaattttt	taaatatgtt	300

<210> 1397

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1397


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aaagacccat atacctctga gaatttagaa tgttacaaaa ccgtatttca taccaatggg      120
gaaaggataa actcttcagt gacgaatatt agaaaaagtt agttatacat ttgaggaaaa      180
ctataaaagt accaataatg agtaggaaat cacttctgca gtatttttgg agcattttcc      240
ttaagcatga cataaaaagcc aaaggtcaca agggaaaaaa ctgatagatt tgtctgtgat      300

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<210> 1398
<211> 300
<212> DNA
<213> Homo sapiens

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<400> 1398
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cagctgagaa ggttcacagc ccttctttat agccacagag gcagcacaca ggggaggtgg      180
gaagacacag ggaaacgaga gaagaaggat aatgaggcct tgagggtgttc tgccccaat      240
ttcaaggagc ttatcaggct tcatgtgcaa tttggggagg ggagcttttt gatggtgggt      300

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<210> 1399
<211> 300
<212> DNA
<213> Homo sapiens

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<400> 1399
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aatcctgcag aatgtaagta agctctgctt tataagatgg gttcaccttc atcgcagact      120
gaaagtttca gtttttattt ttttcagaaa gcacgaaaaa ttatttataa tagtctggag      180
aaaaaacaca ctgtaatat tcaagtgtat gcagtagaat gtactgtaac tgagcccttt      240
cccacatgtc taggtctcaa tgtctcctgt aggtccacct aactgtgtgt tttcagggac      300

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<210> 1400
<211> 257
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1)...(257)
<223> n = A,T,C or G

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<400> 1400
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agccccagag cctcatgcca gcagctcctg gctgttnctc acctgaggct agagcagcag      120
ctgncancct atagatgggg cgtatgntan ttaatnctnt nnnannntcc tctnataang      180
tnngntnnnn nngngntntc ttnnaatac gatntgcnch nmctatnntn annanntntt      240
atnchnantnn atctnna                                257

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<210> 1401
<211> 266
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1)...(266)
<223> n = A,T,C or G

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taggattcat	taattttctg	acattactgg	acaagatggg	tcgtgccatt	cagaaagctc	180
tttttctttc	ttcttctttc	ctaatacagt	gaggcataca	acgtagcctg	ccttatggtt	240
aannngcntg	nngactttat	nnttnc				266

<210> 1402

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1402

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tagtttggtg	cctaagagta	caccaaagt	gacatccttt	caccaatata	gattacttca	180
taccacattg	tcaaggaaaag	gactagaaga	attttttgat	gacccaaaaa	actggggggca	240
agaaaaagta	aaatctggag	cagcatggac	ctgtcagcaa	ctaaggaaca	aaagtaatga	300

<210> 1403

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1403

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tggggcgctg	atggccatgg	agggtactg	gcgttctctg	gcgctgctgg	ggtcggcact	120
gctcgtcggc	ttcctgtcgg	tgatcttcgc	cctcgtctgg	gtcctccact	accgagaggg	180
gcttggtggg	gatgggagcg	cactagagtt	taactggcac	ccagtgtctca	tggtcaccgg	240
cttcgtcttc	atccagggca	tcgccatcat	cgtctacaga	ctgccgtgga	cctggaaatg	300

<210> 1404

<211> 209

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

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<223> n = A,T,C or G

<400> 1404

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aaatggaggc	cttacctcat	ttggggcaaag	attagtgtca	gttattgaag	atttactaat	120
aaatgatctg	ttaaggaatt	tagttttttt	tggatatgtt	gttttggttg	nngaaaaacta	180
nggnatannt	ataatagnta	ttttttgaa				209

<210> 1405

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1405

aattccggtg	ctgtcgggaat	gatcaacttg	ttactatttg	ctgagatgct	gtgtaagaag	60
actgaacatt	tgccatttgg	tgatgtggaa	gctgttgagc	ttcactaaat	ggtttccacg	120
gagtggaggg	gaaaaggctt	gtttgagtgg	cctcaaatga	aattgggaag	agaggggaaga	180

gacagtgtga gtataaatgg ttccttttgg aaattcagta caggagagca aagaattata 240
 gatcgagggg tataaggagg gtcaataaat tttaagagag gatccattat tcatcagttc 300

<210> 1406
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1406
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 tcttaaactt gactacttgg cttagaagaa agtcaaaact ccttcctttt tgactaagtg 180
 gtttgtttct ggggagctct taatttctat ttttataatc attagcctat aaggaaattg 240
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<210> 1407
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1407
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 catggcaggc taggggtgtaa cagatgagtt ctgagcaggg aagggtgaatg aagcaagtgg 180
 atccttgaggaa agataaggta aagaaaggat gttagttgga aactagcaat caggaagggtc 240
 agctgctgcc tgggtctaggt agagtggcag ggcagaggag ggcttggtctg gatatggtaa 300

<210> 1408
 <211> 293
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(293)
 <223> n = A,T,C or G

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 gattgcttga gccatgttgc ttgaattgct gccaatagca gaccatatcc ctatcatgtt 180
 gttggctcaa ctgttttttt ttttccntaa tanaaaangga gtatcnntgg gtngntnagg 240
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<210> 1409
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1409
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 taggagccca atagatgat ccagattgag atcctcttct ttttgtagt gtctggattt 120
 tgtttgctag ggttttcagg atttttgtgt atatatgcat gagatactca tctgtagttt 180
 tcttgtagt tctttgtttg gttttgggtat cagggtaata ctgcctcaa agaatgagtt 240
 gggaaatgtt tccttctctt ctgttttttg gaagagtttg tgaagaattg atcattcttt 300

<210> 1410
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1410
 aattccggttg ctgtcgctct cgcagtgag aacctgcctt ggctcccctc ccctcaagga 60
 gttcatagcc gtgggagggg gggagacaag aactgttgga gacaagaact gttagagacc 120
 agagagcaag ggcgtgatgt ggtctgcagg gaggaggctg tctgaggcag aaccgggtca 180
 gggaggccat ggtgcgggta cctccaggc acggcatttg gcctgacttt tgaggggtgc 240
 ccagggttgg ctacatggcg gggcggaggt atcttttagtg ggggaacagc gttgtgccac 300

<210> 1411
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1411
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 gcagattcag catcagatac gtctggagtg cctcgggcat attcattgct actgttgatt 120
 tegtgtcctt gtttctgccc taaatgtgtg ccacactgac gaccacagtg tagcccttag 180
 tccgtctctc atctaattct tccctcatcc taaaggctca gtctccagaa caaatcctac 240
 attgtctacc tgtcacctct gtcttagccc aggacacccc ccactccctg gacacctgct 300

<210> 1412
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1412
 aattccggttg ctgtcgaaca attttttagag aagaagaaag agaataaaag actgaaaagg 60
 aaacagaagg ctcttgctga agaggccagt gaagaggaac ttccctctga tgttgatttg 120
 aatgacccat accttgctga agaagttaaa caaataggta taaataaaaa atcggtaaaa 180
 tctgcaaaaag atggcacatc tccagaagaa gaaattgaaa tagaaagaca aaaggctgaa 240
 atggcctttgc ttatgatgga tgaggacgag gacagtaaga aacacttcaa ttacaacaag 300

<210> 1413
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1413
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 tggctaaaga tgttgaaaaa ctcatgggac aagtggaaat ctgggaggca gaagccaaat 120
 ctgttttgga tcaagatgat gtggacacct caatggaaga atctttgaag catcttattg 180
 ccaaaggctc tatgtttgat gagcttatgg caagaagtga agatatgtta caaatggata 240
 tacaaaatat ttcaagccag gagtcctttc aacatgttct cacaactggg cttcaggcaa 300

<210> 1414
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1414
 aattccggttg ctgtcggtag actgagatca gtgtgtaggg gtgaagcaag gagtcctact 60
 ctgtttgact aaggtaaaaa ttaagaatca gtgagaaatg gaatttgcaa aagtgcctgc 120

cagataatgt	tagaactgga	ccagaaaata	ggagttggta	taaaactaga	ccagcgagct	180
ttttttcctt	caagatgcag	ttcagtttat	tgcttttgta	aattagagat	tgtgtttctt	240
gatctttatt	aaagtagaat	acaatgttaa	cctacttcaa	attttaaaaa	atatacacac	300

<210> 1415
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1415						
aattccggtg	ctgtcgggtt	tgtacgcacc	gtttttctct	tgtgctatgg	gagatgtcaa	60
ggaatcaaag	atgcaaataa	caccagaaac	tccaggaagg	atccctgttt	taaatccttt	120
tgaaagtcct	agtgattatt	ctaactctca	tgaacaaact	ctcgccagtc	cttctgtttt	180
taaatcaaca	aaattaccaa	atagataaag	atgtggaaga	caaaagacaa	aaagccattg	240
aagagttttt	cactaaagat	gtcatcgtag	cctctccttg	gactgatcat	gaagggaaac	300

<210> 1416
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1416						
aattccggtg	ctgtcatgct	gaggttggtt	aacaggcccc	atgtagctgt	ccccacattg	60
gggtttgctt	tctacttccc	aggtgtttct	cagcgtgaga	gtttagtttg	ctttgtgctg	120
ctggacaggt	tcctgcagaa	tggcctgttg	tacgagtttt	aagaatttaa	atcccattac	180
acagccctga	cttcttattt	gctagttctt	tccatcattc	atttatttta	tccacttgga	240
gttagtctgt	ggctgccatg	tgtttgctag	gtggcagagg	atgagagatg	gatgaaaagg	300

<210> 1417
 <211> 289
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(289)
 <223> n = A,T,C or G

<400> 1417						
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ttcaggaaaa	aatgacttta	aatactgtca	tcataatccc	actttgtacc	tccttctctt	120
ttcatatcca	tgctcaagt	gaagttaaca	aatccctgcc	cccagagagc	tgcccaaagc	180
atcacgtttt	agaaactgtc	ccagaatttc	caaactcatc	caaaagcaag	tgacatcaag	240
tcagatattc	ttggtgctag	aaactcagaa	aaaaaaaaaa	nggggggtc		289

<210> 1418
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1418						
aattccggtg	ctgtcgaaaa	catattagaa	ctaacaaact	tacaatggac	atttaaatagt	60
gggtttcctt	tctattctat	tttttaaaat	gtaaatggag	taaatgataa	aatgtagact	120
gaatttatca	taaagacatt	ttcttttggt	atactgcaag	gaactatgaa	cttttagtaa	180
ctactataag	caactgacag	gaaaaaatgg	caacagaaga	aggaaagagg	agagaatggg	240
gagcagacac	taagggtgtg	tgaaaggagg	aaaatgaagg	ctaagtctaa	tgatgtgaat	300

<210> 1419
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1419
 aattccggtt ctgtcggctg aaaatgaaag cagacctaga agaagtccaa agtgcccttt 60
 acaacaaaga gatggaatgc cttagaatga ctgatgaagt cgaacgaacc caaactttgg 120
 agtctaaagc attccaggaa aaagaacaac tgagatcaaa gctggaagaa atgtatgaag 180
 aaagagagag aacatcccag gagatggaaa tgtaaggaa gcaggtggag tgtcttgctg 240
 aggaaaatgg aaagttggta ggtcacccaa aattttgcat cagaagattc agtcctagtg 300

<210> 1420
 <211> 263
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(263)
 <223> n = A,T,C or G

<400> 1420
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 gcttttttta atttaaatta ttactacact ttattactac acttcgagaa aagaaacatg 120
 ttaaaatcat ggcacacctg cagaatttna tatgacagag tgnncanac atgtattcnt 180
 gnntntanaa tancntnttt ncncctacntc ttntntttcc tnanannata tctantantt 240
 ntnagtcctn tnnttcnana aat 263

<210> 1421
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1421
 aattccggtt ctgtcgcagc cacaaagctc ctgcccattg ggcgctctga ggggcagact 60
 gcttggtggc ggagtccttg ggggtggaaa tgggtgaggtc actgtgatgc cactttgctt 120
 agtcatcggc cacaggggtca cctggagaag agcatgagct cagcataaaa gcaaggccca 180
 cctgcaggg gccagcagct gggagctgtc cactaaccac tacccttgca gctggacagc 240
 gagggccctc caaaaggccg tctccacctg ccaccgggaa aggaccgga gcgaaggatg 300

<210> 1422
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1422
 aattccggtt ctgtcgatta tagccttcta taaaacttat aaaacttgct tgtaaaattc 60
 catatagaga ttgcaactga gagttggctg taaaactaaa aatattgttg ggaacagagc 120
 aggtcaaaac tcccatgatt gatctaataa tggaattata ctggtaaaaa gccactgcac 180
 ttcagcctgg gcaacatggc aagactctgt ctctaaaaag agacaaaaca gcataaaaat 240
 atgcttgata taaactctag ccctcttcta gttatttgct catttgata ttttcatttc 300

<210> 1423
 <211> 274
 <212> DNA

<213> Homo sapiens

<400> 1423

aattccggtg	ctgtcgagac	tttgatgggt	atgaatggaa	ccaagttact	gagttagagc	60
atcttcta	taaataatgaa	ataggagctg	aaggcataat	ttattgatta	gaatgacaga	120
aaatgtttt	atgctgtaca	tgctttttga	acatttttca	aaatacttgt	aactttgaag	180
aaagtgtgta	tattgttaga	aggctgtaag	gagagcaggt	ctctgctctg	gtggtgattt	240
tactcaagag	gggatgtgaa	tatttatatt	tttg			274

<210> 1424

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1424

aattccggtg	ctgtcggaga	aacccaacac	atgtaaggaa	gattagaatg	tatgcaattt	60
tcctagttcc	cttctaaaac	ttagaaggac	ccgtcctggg	aaagaacgtc	ataaaaatacg	120
aaaaatgtgt	tagaacactt	tattttccca	gccgctttca	aatataattt	tatcagtggt	180
tcattgttaa	agaagggtgc	tatactttag	attttcagtt	ttttgcaggg	aatcatggag	240
ctgagaattt	cacagatact	ttataagcca	tagtacatga	gcttaatagg	ctgtgttttg	300

<210> 1425

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1425

aattccggtg	ctgtcgatta	tatgccacct	gggtttacag	tgtagtctct	tatcaggtag	60
gtttgttctg	agatgtatag	taatgatgac	tttcttcttc	gcccaagtat	tttgtgtacc	120
ttagaccagt	ttagcaaagt	aagtccaaga	actatttgaa	taagtcattc	ttagaaaata	180
actttaggaa	gcaactgact	ccattcatgt	gtatgcctct	aattgtaggt	tcacttctgt	240
ccgaatatga	atttttataa	taatttttagc	attatattag	caatttgcaa	tataaccattt	300

<210> 1426

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1426

aattccggtg	ctgtcgcaaa	aggggaaaaa	agtccaggtc	agcataagtc	attttgtgta	60
tttctactga	gttataaggt	ttttataaat	gttcttttgaa	ggggaaaagg	cacaagccaa	120
tttttcttat	gatcaaaaaa	ttctttcttt	cctctgagtg	agagttatct	atatctgagg	180
ctaaagttta	ccttgcttta	ataaataatt	tgccacatca	ttgcagaaga	ggatctctca	240
tgctgggggt	aatagaatat	gtcagtttat	cacttgctgc	ttatttagct	ttaaaataaa	300

<210> 1427

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1427

aattccggtg	ctgtcgctgt	cagcgtttta	gctgatgaag	aattccttcc	cttcaaagaa	60
aatacatttg	acctggtggt	tagcagttta	agtttgcat	gggtgaatga	ccttcctaga	120
gcacttgagc	agattcatta	tattttaaaa	ccagatggag	tgtttatcgg	tgcaatgttt	180
ggaggcgaca	cactctatga	acttcggtgt	tccttacagt	tagcggaaac	ggaaagggaa	240
ggaggatttt	ctccacacat	ttctcctttc	actgctgtca	atgacctggg	acatctgctt	300

<210> 1428
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1428
 aattccggtt ctgtcgctca actgaccgtt ggatttgcaa tgtggacctg aagagtaatt 60
 gtggtgaagt tgtgagaatg aaactgaagt ggggttcaaga aagaacgaga ggagagaaag 120
 tggagtttga gtataaataa ctcttttgggaggattggt gtaattgaat ggcaggggta 180
 tgagatttga ggtcaaggaa atatttttat tattttttac gatgagagaa attgtagtac 240
 acatgtatat ttatgggaat gactcagtag aaagaccaa aatttcatat gtgagagaag 300

<210> 1429
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1429
 aattccggtt ctgtcgccag aggggagaag gtgtcccagg aggagccttc ctggagggga 60
 tgatagtcca gcatgttctg aagtgggagt aggggtcgcc aggagtaggg taccagagaa 120
 tgagtgagtc aggcagcagc ctccactgcg ccttggacac aggtggctga cagtgtccac 180
 ctggactggc ttgaccccc ttctgaggtc acagttgtgt cccttgaaaa cttgggcagg 240
 agcacctgac tggccagct tgggtcatcc ctaggcccag cagtgcggga ggccaggaaa 300

<210> 1430
 <211> 270
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(270)
 <223> n = A,T,C or G

<400> 1430
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 tgggatgtgt gatttcagct cctgtcacct catgcaaggg cgtggagacc agtagaggtg 180
 tggaggccag gcagagagag gagcctgtct tgaggggtgc ccannntnat ggnccactgtc 240
 cnttcannta gcctgnctan gnccctgag 270

<210> 1431
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1431
 aattccggtt ctgtcggtta tgtttcactt cttgaaccat gtaccaaatt tgccaatttt 60
 ctgtccaagt gtttcagatg aataacaaaa cgctgttcat tgaagctttc gccacctttc 120
 ttaaagcagc gtatgttcca agggaaaaag gcattgaaaa gcaatcgttt gtttttatga 180
 agaataggtg ttcagattcc ttcagttttt ttgaaattag aaatttctta ccttatgtga 240
 aatattcaca aacgtgcaca cttctgcaga gacaaagcat ttcactgcac gtgtaccagg 300

<210> 1432
 <211> 300
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(300)

<223> n = A,T,C or G

<400> 1432

aattccggtg	ctgtcgaagg	aattctgtgg	ctgtgctgcg	tttcagaaaa	taacccccag	60
aggccttggg	ctgtggacct	gggggttgga	aggatggggg	ctcatttaac	cctcagaggc	120
agcgctttg	tctgtctatc	tggtgacaag	agagagacaa	gtaaatgggg	gccgttgggg	180
cggcgggtgc	ctggagggca	gctctgggct	catcgggcag	tgcttagagc	acaggccctt	240
ctgttggggg	atggggagga	gagcagctcg	cccttgggan	cgtatgcccc	anggagactt	300

<210> 1433

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1433

aattccggtg	ctgtcgggct	gactcctgct	tttttggagg	gtttaacttc	tctctcagct	60
agaaggtag	gcattgcaaa	taccagtggg	taattttttt	cttagcttta	accccagccc	120
atttcaaccc	cctctttgcc	ctttgtatat	tcttttgaaa	atatgatcca	gtagtgttta	180
tgaatgtgtg	ttgtgtaaaa	tttagagatt	gatgttaaac	aacagaatta	aaggacaaag	240
ctgtcttttt	tggtggaatt	ggggatggga	gagcagctca	aagtgggaaa	tatggagaaa	300

<210> 1434

<211> 299

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(299)

<223> n = A,T,C or G

<400> 1434

aattccggtg	ctgtcgcttt	ttacaaagaa	aaatggaaaa	actttgtatg	gtagcttcat	60
gttgaagtgg	ttttttgttt	ttgtttttgt	ttttttaatt	tgtaaaatct	ggaaagttag	120
cttgttctaa	taggggctat	gctctgcaat	tccctttttt	tttttttttt	ncntnccn	180
aagcnaaacc	ntnannaaan	nntngngggn	tnnaangngg	ggccgnnttt	tcncncngtn	240
ggnatnnnan	ntaaggggnc	nnngnaaaac	caaanccnt	ngaaaancnn	nggaggggcc	299

<210> 1435

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1435

aattccggtg	ctgtcgggta	ctgtgaatgg	agagcttcag	ctaagaggag	gctctgtccc	60
ttttcagagc	caaaggaaat	aatacaacaa	aaaggaggct	tctttggaga	cctaagtcta	120
ttggatgtaa	acaagacgtt	gtatttaggg	atgttctgtg	tttctttctt	ttttgaagtt	180
gtcatcaatt	gctttactaa	gattttttaa	tagtgaaaac	ctcctgttta	gactttgggtg	240
gaagatgaat	caaggaagca	gggccctgtc	ttatgggtca	cgtgtcctttg	gtgagtgaga	300

<210> 1436

<211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1436
 aattccggtg ctgtcgattt tatatgtttt ctcttatatt tcttggtttc atccaggact 60
 actagattcc agtaagaata aaattaaaca ttagagggtt gtcttccatg ttgtttaaga 120
 aaattagttt ccctttttaa ataattacta atatttgaag attatgaatc ataaattaat 180
 cacaagtgcc atacctatta ttttagaagc aattgagcaa tataaatggt cttcagtttt 240
 accagttctt gatctgtagt aaattccagg ggtggtgggg tctgtgaaat aatgaagaaa 300

<210> 1437
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1437
 aattccggtg ctgtcgggtca aatttcatca ggtaagaagt gctaaagtga acctgtaaac 60
 tttgtttcaa aaaacaaaaa ccgaagttaa agaaatctaa agatgggtgc agccttagac 120
 agatctctgg actgtaatct gggaaaggtc aaataagatc tccaatcgtg tacaattcca 180
 aatacatttg agagcagtgg gtctgaaaat gtggttccca gaccagcagc atcaacacca 240
 tgaaggaagt tgttaaaaat gcaaattctc aggcctctcc ctgtgcttta ataaagtttc 300

<210> 1438
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1438
 aattccggtg ctgtcgcaaa aagggtacagt gattcagcca tttccatttg tcatttgttt 60
 caaccttttt taagttgagt gtttttattt ctgcagttat tagttggatc ctccacatct 120
 tgcataata catgggtcct attattatgt ttgtcaggat aatcaaatga aaataactagt 180
 tcagtgatca gcattgaatg gttgttaggc agccatgtgc tcaacactga tttcacctct 240
 tgagtataaa ctttttaaat ttaaattggg ttacatgaaa gtggattaaa aggcctttca 300

<210> 1439
 <211> 300
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(300)
 <223> n = A,T,C or G

<400> 1439
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 aggatttcct tctttctggg gatagttctc tttaggagga agaggagtta gccctcact 120
 tgcttatccc tctcctatgc tctggagttc ctctccaccc ttgccccac cccacattgc 180
 cccctcctgc tcggtcagtg cctggccagc tcaggcagct tgcgtcacag taaggtaaag 240
 ccagaatgag nattangnct gagcganant gnaaaagcca ttcctntgac cctaccacc 300

<210> 1440
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1440

aattccggtg	ctgtcgcgtt	tttggcaagg	aggacaaata	cgcaatgttg	gaaaaccttg	60
gatggatatt	ttctctttaa	aaaaatgtaa	agataatttg	gtcttgaggg	tttaaaccgt	120
tgataatgcc	tctacaacaa	caagaaaaaa	gataaaatac	taggatagaa	tcatgggtgg	180
cacagtggct	tctcaggagg	ctgaggaggg	aggtttgctt	gagtcagga	gttgagacc	240
agcccaggca	acatagcgta	aaccctatct	ctaaaacaat	tttagccag	gtgcggtggc	300

<210> 1441

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1441

aattccggtg	ctgtcgtcag	atctctgatt	tgaaaagaat	gatttcaaaa	cttgaagctc	60
aggtcaagca	agtagaacat	gaaaatatgt	taagccttcg	tcataattct	agaattcacg	120
tgagaccctc	gcgtgccaac	acactagcaa	cttcagacgt	cagcaggcgg	aaatggctga	180
ttccaggtgc	agagtattcc	atctttactg	gccagcctct	ggacaccag	gacagtaacg	240
tggataacca	gctggaggaa	acctgtagcc	tagggcaccg	ttcacctctg	gaaaaggatt	300

<210> 1442

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1442

aattccggtg	ctgtcgaccc	caaccctctc	tcatgttcag	tctgtctaata	acatgccaga	60
gatttttttt	tcaaaaagt	ctttatccct	acaatgtact	gacagttctt	acagttgaga	120
tttgttcttt	tcagctattg	cttgtgaaaa	aaagcaagac	tatgtcactc	tatagaaggc	180
tgttaaaagt	actcaggcag	gaattaatta	ttctgtacct	aaggggttac	ttgtttaatg	240
ggatggcatt	gactttttga	aaatcaagtg	gactgagtca	ttgataaaac	atcttctaaga	300

<210> 1443

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1443

aattccggtg	ctgtcgcact	gaatgactta	aggctcgaca	aatgatattc	ttggaaagtt	60
taatcttgag	gttttcaaat	cttttttttt	aatgtctccc	atgtttctca	ttgtctgatt	120
gattcattag	ttgtctcttag	taagatttgt	cagttggaaa	taatgaaggc	tgagactcat	180
ttctaaactc	ttccataacc	atcaccagaa	gagcagccac	tgtgttgtgt	gatgtaggct	240
aatgcctccc	agatagaggt	aaagtcacaa	ggactattag	aattccagtg	gattgtggaa	300

<210> 1444

<211> 245

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(245)

<223> n = A,T,C or G

<400> 1444

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gcattccaga	aactgttgat	tggtgttcta	gaaagtggta	aaatagctgt	ggagtacaga	120

cccagtgaag acatcgtagg tgtcagatgc gaagaagaac tacacgggtt aattcaagtc 180
 ccttgctctc cctggaagca gtatggccaa gaggaggaag ggtatctctc ggatttcanc 240
 ttgna 245

<210> 1445
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1445
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 atggatataa aggtgataaa gattggaaat aaatcttcta aatatgtaaa atgaaagcaa 120
 cagcaacagc aaacacaatt atcgtattct ttgggagtaa caaatactgg ttttcatttt 180
 aaaactaagg aaaattttat cagtacttaa attcaatcca aaaaagggtt tataacaccc 240
 aaactgtaca tttaaaatta tgctttctta aggtaatggc tagcattacc tagttttag 300

<210> 1446
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1446
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 tcctgatact gtagttcact gtagaaatgt ggctgctgaa actcatttga ttgtcatttt 120
 tatctatcct atgttaaatg gtttgttttt acaaaaataat accttatttt aattgaaacg 180
 tttatgcttt tgccaacaca tcttgtaact taatatacta gatgttaagg ttgttaatgt 240
 acaaaaaaaaa aacccttata ctacactgag ttccatttg ttgacattt gtctattatt 300

<210> 1447
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1447
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 aaaactaacc ctctttttta gaggagattt aaggaagacg tcaatcaaaa tgtcaaata 120
 gtgtgtcaga atataaataa tttttcacat tgtattgttg ctatataaaa aaaataatag 180
 aattgggttg gtttctgagg tgaaatccag agtaagagta ctagacagtt caacaagcca 240
 catctaattg cacagataga ggatgtagct attttatacc ttccataaca ttgagagta 300

<210> 1448
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1448
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 catcattttg atgattacat tatttttaaac aacaaactac actgaaaaat taatgccgat 180
 aaaattctgg ggggtgggaag gtaggatgtg gagtgacatg gttctatcct ttacttatga 240
 gactcagaaa tatatctaca aagccagatg ctctgtcttc atatttgcag acatctagac 300

<210> 1449
 <211> 300
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(300)
 <223> n = A,T,C or G

<400> 1449
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 tatttgtaga gtgttacgag tgtatcatgt gattatgctt taccggtata agagattctg 180
 ttgngattat ttgaatagtt ntatattaat anaagaagac aaaanttttt aaatggtana 240
 aaaagcngat ctgtcattgc tnngtatcnt aaantttang cttttatcna tgtatatattt 300

<210> 1450
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1450
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 ttagaaaaac tcaacaattt tcaaattattg ctttggctac attcaccttc attcctctgg 120
 gattccactt aacatttatt aggtcttttt gcttaattcc ctatgtctct tctatacttt 180
 cctgtatttt ctactcttgt gtctcccttc actccaagaa tttacttctt ttttgtttgt 240
 ttgtttgttt ttgagacagg gtcttgctct gtcgccagg ctggagtga gtggcatgat 300

<210> 1451
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1451
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 acttgccct gaagagaaaa tggaaaccaa gacggagtcc agtggaatag agacggaacc 180
 caccgtgcac cacctgccgc ttagcactga gaagggtggtg caggagaccg tgttggtgga 240
 ggagcggcgt gtggtgcacg cgagtgggga tgcttcttac tcggcggggag acagcgggga 300

<210> 1452
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1452
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 cctccgagcc tgctgcactc cacgtcccc taccagggtt ccagccccca gggaaatctc 120
 cgaccaggcc cgcccaggag ccagatccag gtccttgga gaaccatgtc cggcagctac 180
 tggatcatgcc aggcacacac tgctgcccga gaggagctgc tgtttgaatt atctgtgaat 240
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<210> 1453
 <211> 300
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(300)

<223> n = A,T,C or G

<400> 1453

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caacaatatg catcatagaa atttagaaaa cagaagaaaa gtcactacag tcttaccact      120
cttactgtta cgggtattaga aatatatata gtggatagcc ataagtataa atgatencat      180
atagcatgtn ttttataaaa attggtttat actgtacatt ctatcttgtg angngatgnn      240
tttcacntgc cactgtatca tgcccatttc cctctntctg ctgtctgtat tcttcttgat      300

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<210> 1454

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1454

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aattccggtg ctgtcgggaa aactacaggt gttgtccaag ctcttagcgg ttatccacga      60
acttcgacct actgaaaagg tggtgttggt atccgactat acacaaacct tgaacatttt      120
acaagaagta tgtaagcgtc atggatatgc ttatacaaga cttgatggac aaacaccaat      180
ctctcaaagg cagcagattg ttgatggctt taacagtcaa cactcttctt tttttatttt      240
tttgtaagt tcaaaagctg gtggtgtagg acttaacctc attggaggat ctcacttaat      300

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<210> 1455

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1455

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aattccggtg ctgtcggcaa aatagtatgt tctattactg tgcaggggaa agggatggat      60
cgatacatgc aaatttaatg tagtaactca cttttccata tattttgaat gtatatttct      120
atztatgata ccaatttata aaaaataatt acacagaaaa aatggaatag gaaaaattat      180
gcatctagca catttaaaact gtgcaaatat gaaaattttt cgaggattac attttatctg      240
aaggctgcat attttaactg gctttaaaac tgtaacacat cacataaaag atactttacc      300

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<210> 1456

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1456

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aattccggtg ctgtcgaaga aaattttcta tgattataat attccaagta agtttctctt      60
ttgagatcat ttgtctattg taggaagtca ggtaaataag tttagtttta aaaaacaaaa      120
atcttctcaa tcaggattct ttctgacctt ttaatctcag ataagtataa tagagtatta      180
tttcaaggat tcccccttcta gcacaatctt gctcaagatc aggccaagaa tatagacagg      240
ttcagtaaac cacaagtgtc ctaaacctgc ttgaacctat gtaagaactg agcagtgggg      300

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<210> 1457

<211> 297

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(297)

<223> n = A,T,C or G

<400> 1457

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ctgacctcaa	gtgacctacc	tgcctcagcc	tcccaaaatg	ctgggcttac	aggtgtgagc	120
tactgcgcca	ggcctaatat	cttttttttt	tttnnaaana	aagnntngtt	tngggcccag	180
nnngaagtgn	agggggnaaa	tttnggntaa	tngaaccntc	ngcntccnng	gttaaaaaaa	240
ttttcnngcn	taaccntcnn	ganaannnng	aannacgggn	tngcccnaca	accccaa	297

<210> 1458
 <211> 300
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(300)
 <223> n = A,T,C or G

<400> 1458						
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tggtgatgat	gaatatattg	attgctatct	cagggcgaaa	tctcaaaagt	ttgtgttgcc	120
cttttaggaa	tttcacagtt	tatattgacc	tataaccaag	aggcagggtc	attatgttta	180
attgcattaa	aagataaaaag	aagtagacaa	attgaaagga	aaaagagccc	agagattggt	240
acctttttat	caagcnacan	catgccacaa	actttgcata	cataaaaaat	aataacctga	300

<210> 1459
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1459						
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gaagctggat	tggtgcagga	attctgcaat	tggtggcaaa	gcgaagggca	gtttgactcc	120
ttaattataa	agttggatgt	catttgagaa	actctgggaa	ttggaagtag	aacaaattca	180
tactttccct	ataactttta	atttcttgct	atacattcag	aaaacaagag	atgtaaaatt	240
cataaaactg	cttgtataaa	ttcagaaaac	gggattataa	aagcaaagac	aaattgtctt	300

<210> 1460
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1460						
aattccggtg	ctgtcgatat	aaccaggaa	cgtgacagtc	ttatgtgttt	ggcaaaatgt	60
ttagaaaagt	agaaggatgg	agtgccta	aaagtcataa	aaagcaacat	tcgcctggga	120
aagttagagg	aaaaagtcaa	gggtacaag	aagcaggcag	cactgaagct	gggggacatc	180
agtcaccgtc	tgctggagca	gcaggaggac	ttcgccggca	agacagccca	gtaccggcag	240
gagatgcggc	acctgcacca	ggtgctgaag	gacaagcagg	aggtgctgga	ccaggcgctg	300

<210> 1461
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1461						
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ccctgttact	ccattttggc	cagaaattca	aggatactgt	catgaagcag	acacatgctg	120
acacacctgt	tgatcattgt	ctatctggca	taagaaagtg	tagcagcacc	tttaagctta	180

aaagtgaagt caacaagcat gaaacagccc ttgaaatgca gaatccaaat ttgaacaata 240
aagaatgttg tttcaccttt acgttgaatg gaaactccag aaaattagac cgtagtgtgt 300

<210> 1462
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1462
aattccgttg ctgtcgttgg cttcctcagc attgccgaga tgtacagctc tgtggcagac 60
cagtgggtgcc tgattgtccc catgcacacg cgcaggagcc ggggtctccct ggtggccagc 120
tgtgggcgcc tctacgctgt tgggggctac gacggacagt caaacctaaag ctcagtggag 180
atgtatgacc cagagacaga ctgctggaca ttcattggccc ccatggcgtg ccatgagggga 240
ggggtcggtg tgggctgcat ccctctcctc accatctaag gcagaggatg ggatgtggtg 300

<210> 1463
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1463
aattccgttg ctgtcggaga tgtactgtgc ttatggatat gaagactcaa taacatgtca 60
attctccaca agttaataaa tgtataaatt tacttcaatt gaggattttt tattagacat 120
agacatgctg attttaaaat tcaaattggag gccagggtata gtggccttacg cctgtaatcc 180
cagcactttg ggaggccacg gcgggaggac tacttgagcc caggagtgtg agactatcct 240
gggcagcatg gtgagacctc atctctacta aaaatacaaa aattagccag gcatggtggt 300

<210> 1464
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1464
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taacgtttat aagatgtaat catttaatat accaaccatg tgtatactgc ttcagttgct 120
cctcagattc ctgaatctaa tcagatataa cactttgcat tttgtttacc ggtctctcta 180
gtcttctgta attttcccag ttttttccca taatactgat ttttttttca gcattaaagc 240
tagctctctt gtagagtagt ccacagtctg aatttatctg attgtttcat gattagattc 300

<210> 1465
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1465
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tgaatgttca ctccatgtca ggcattgtgc atgttttcat ctctaccagt aacgctgaac 120
tttcttcttg tgtgcatcag cctgttggtt tcttttgtaa atgttctgtt cgtgtccatt 180
atcaactttt ctactagggg gtgactgttt ctatgatata tttataacga tgtgtgtgtg 240
tgtgtgtgtg tatacगतat ttggggtaaa tacttttccc agcttctttg acttttaatt 300

<210> 1466
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1466
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cgctgcttgc tgagcagcgg gagcaggaga aggagcagat gctggaatat atggaacagc 120
tccaagagga agatctaaag gacatggaac gaaggcagca acaaaaactg aagatgcaag 180
ctgagattaa gcgcatcaat gatgaaaacc agaaacagaa agcagaactc ctggctcagg 240
agaagctggc agaccagatg gtgatggagt ttaccaagaa gaagatggct cgagaagcag 300

<210> 1467
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1467
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aactagagtg cagagtggat tgcttttcag ctttttctat taggattcag atagcttttt 120
aattgctgct aatatatttg tcattcatat tgcttttttg ttttcaaaat tcagttaata 180
ttttttcttc tcattcattt tgactttgta ggttcatgcc atttgtaaaa cctctcttgt 240
tgtcttttta ttggaatttt gagagggagt taaatgtctg tttttaatct accatcttta 300

<210> 1468
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1468
aattccgttg ctgtcggaca gcagctccga ggctcggcggg ggtctgggtg gccatggagg 60
agccccctgt gcgagaagag gatgaggagg agggagagga ggacgaggag agggacgagg 120
ttgggcccga tggggcgctg ggcaagagcc cttccagct gaccgccgag gacgtgtatg 180
acatctecta cctgttgggc cgcgagctta tggccctggg cagcgacccc cgggtgacgc 240
agctgcagtt caaagtcgtc cgcgtcctgg agatgctgga ggctggtg aatgagggca 300

<210> 1469
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1469
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atttgaacaa gtgtccagag gggagataat gtacagaagg aaaaaagaat aatgggcttt 120
taacttcttt tttttccctc agtttttctt tttttcctat atagagatgg gactctcact 180
atactgcgca ggctgggtct gaactctctt gggctcaagt gatcctccca cctcggcctc 240
ccaaagtgtc ggagttacag gcttgagcca ctgctcctgg ccagcttcta ctttaaacct 300

<210> 1470
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1470
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ctcaagtccc aaattgctgg gatttaggca tgaaccacta tgccctggcca taccgtacag 120
aaacactctt atggtgtatg tatgctcta tttggaactt agttttgtag tcttttttta 180
aaatcatact ttattatagt accttgttat cattttgaat atgttaaate aacactataa 240
tagttaaggt agacagaaca ttaggacata ccgtattcta ttttttttcc tctgtatttg 300

<210> 1471

<211> 292
 <212> DNA
 <213> Homo sapiens

<400> 1471
 aattccggtg ctgtcgtaat cttaaaaaata cttgcctcaa agattttattg ggataactaa 60
 gatctgtaat acttggagat aggaactatg tcacatagtg catgacacat gaaaggcact 120
 taatattcat tgaattgaat taaatctcac agattttaaataaaaaggcctt tgccttaatg 180
 ttcaactttg tatttggtat gaggtctctc tgtctccctt caattaaatg atatttagag 240
 gtatgctcac aatagattag acatagttaa tttttttttt tttttttttt tg 292

<210> 1472
 <211> 293
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1) ... (293)
 <223> n = A,T,C or G

<400> 1472
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 tagacaaata ttaaagaaaa tctgggccag gtgtggtggc tcacacctgc aatcccagca 180
 ctttgggagg cccaagggtg gaagattact tgaggcaagg ggttnganan cngcctgntc 240
 ntnatannga anntnngctc ttnanannag antgngntna ntagagtaat taa 293

<210> 1473
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1473
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 tatgtgtgaa ttgacaactt gctaaagtcc cccaaatttg ttgtttctaa agaattggaa 120
 accatttgag aggagctatt gtaagagggg acttcagcct tgatcattag ccgtcaggag 180
 ctctccctca ggaagatcag atttaacagt ttttgagaaa cttgagattc tgaaatgctc 240
 cacggcctgc ttacccttg gaaagactgt aaggggtaga agtaccacac agaagaccac 300

<210> 1474
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1474
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 aacagaaaaa ggaaattata tttctgtat caacaaagat ttaacaaaac atccatacac 120
 tacaactgtc tacttactaa aattaagaat tagtatatta ttttttttct tcttatatta 180
 aaactatctt ttcatacact attttaagtt tatgaactga aagtctttta gagataattt 240
 acttcaatga actattatta tttatatttt ataagcaaata tgtcacaact tggatttagc 300

<210> 1475
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1475

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cagagggagt	tgaattcaaa	caccttgatt	tcttattatc	agctgtgtca	agatcaaatc	120
actcctcttt	ggcatgctgt	ttttttctag	aagtattact	cttgccttag	ctattaccat	180
ccccctcttt	gcttgttaggt	tgatatttac	ttgctaattc	actctcagtg	cattgttttt	240
gaatcttagc	ctagtttttt	gtttgtttgt	ttgtttgttt	tgacagtcctg	cttactgcaa	300

<210> 1476

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1476

aattccggtg	ctgtcgggac	tacaggtgcc	cgccaccaca	cccggctaata	ctttgtatta	60
caggatagag	ttcttggaag	cctggcggtg	agggagggag	agcaggtagc	acagttacag	120
aaggatcttc	gggatatgga	aatgcggtat	ttgtggacac	tcattcatct	aacacacatt	180
tgttgagctc	ctaattgtgta	tagaactgaa	gggatggagt	catgggcagt	ggaaaagctg	240
aaattgtgta	aaagagagag	aaggatcagt	ggctatggtc	tcgaagatga	cgtggaagtg	300

<210> 1477

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1477

aattccggtg	ctgtcgaagg	gatccagtaa	ctgctcccag	ggaaaggata	tcagcttgac	60
ctgcagctga	cagctagtag	taactgtaag	ccacatgagc	gaacaatcta	ggccatccag	120
cccagaagaa	cattaagatg	actgcagctc	cagccaacat	ccggctacag	caacctacga	180
gaagccaaat	aagagcagcg	tagctcagtc	ctcccagaat	ttgggaccca	gaaaataaaa	240
gggaaactaa	acaggtaaac	aagttgttgt	tttacaacac	tgtgtttgag	agtaatgtgt	300

<210> 1478

<211> 288

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(288)

<223> n = A,T,C or G

<400> 1478

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cctttgttca	tgcttagggg	agaggcataa	agttcagcac	agccacaggc	cacaccttgt	120
tatgggcctc	agaagccatc	tctctccag	acctgtacca	caaagctcct	aatgtaacac	180
atcattgtcc	tcattcaact	tggctgtatg	ctattggagg	gtggaaatca	catctcctgt	240
ttatccgtgt	gcttgttagg	tgtcagccgn	cacccccccc	ccatatgc		288

<210> 1479

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1479

aattccggtg	ctgtcgagaa	ccttgtgggc	atcaataaag	ccctacgggc	tccctgtgca	60
tggtagccct	ggggctccagc	tctgcatcac	tgatgtacta	cctatcctgg	caaagatgct	120

tcatggccac	aaggcagagc	ccttgcatct	gtgccaccgg	ctggacaagg	aaaccacagg	180
tgtaaatggtg	ttggccttggg	acaaggacat	ggcacatcaa	gtccaagagt	tgtttaaaac	240
ccgtcagggtg	gtgaagaagt	actggtatga	ggcctgctga	tggcagtaga	ggtggtataa	300

<210> 1480
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1480						
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aagtaaaatc	ttggaaatgc	actttttata	caggatgatt	atttgcccag	ccgaaatgta	120
gggtttccat	tattatcaaa	gaaaaaagag	cagaatagga	gatagctaca	agtctctatc	180
tcttacagaa	tgtaagtcag	acacatcact	tgaggggctt	aaaattttta	acattttcttg	240
atgctttatg	cttatcattt	gtaatggaag	atttgtatgg	tggtagcctt	ccataaagac	300

<210> 1481
 <211> 298
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(298)
 <223> n = A,T,C or G

<400> 1481						
aattccgttg	ctgtcggagac	ttttgtatat	ttatcttaaa	ttatatatct	gaagtttttt	60
tttttttant	ggnagtttag	gcttccagn	ccntatcagn	ctttatataa	atcngtngaa	120
naatcgtttn	ttntaaaatc	aaagtaaatt	tntngnncat	gttnaaggag	ngaaaaggaa	180
tttgggnata	tgnaattttg	ctagnnctta	nggcttcnat	ctaaaaangt	tnatgangga	240
ccaggcncgg	gggctnatnc	ctgggatcct	ancnctttgg	gaaaccagg	cggccgga	298

<210> 1482
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1482						
aattccgttg	ctgtcggccg	ccccaggggc	cctgggagct	gcagggcata	ttgctgctga	60
gccagaatga	gctgtaccgc	cagatcctgc	tgctgatgca	cctgctgccg	caagacctgc	120
tgctgctaaa	gccctgccag	tcttctact	gctactgtca	ggaggtgctg	gaccggctca	180
tccaatgcgg	gctcctggtt	gctgaggaga	ccccaggctc	ccggccagcc	tgtgacacag	240
ggcgacagcg	attgagcaga	aagctgctgt	ggaaaccgag	tggggacttt	actgatagtg	300

<210> 1483
 <211> 280
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(280)
 <223> n = A,T,C or G

<400> 1483

aattccggtg	ctgtcggtac	atgggtccac	tttttttctt	cggtctatta	ttggactttg	60
catttccata	tacatttttag	aatcaattta	ttccacaaaa	agctaccaac	aacaaaaaag	120
cctgttgagg	ttttattgga	attgtgtcag	atctatagat	caatttgga	ggactgattt	180
ttagacttgc	tcaagtattg	gatactttct	tttttttttt	ttttaaaccg	gnntttngct	240
ttngtnnccc	aggnngnagg	gcntnggcnn	tnnttggtg			280

<210> 1484
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1484						
aattccggtg	ctgtcgccca	tcactacagt	caatttttaga	acattcatta	tccccaaaag	60
aaccctgtac	ccattagcag	ttattatctt	tactttttta	atgcgggaaa	taaacctaca	120
tagaaagacc	agaaagactt	tatgctcttg	aactgtataa	actgactcca	gcctacctgt	180
tgtacctttt	gttgttggtg	ttgttggtgt	tgttggtata	ccttattttc	tactagtctc	240
cataatacat	catttattta	attcaggctg	ttttctact	tgtgtacaa	agtgttatta	300

<210> 1485
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1485						
aattccggtg	ctgtcgaaat	tttccagttc	ttttttcagc	ttctttattt	cctcctaattg	60
gaaacattat	ctttaaaagt	tgcatatagg	aaatatacat	attttacgtt	tgaacaagga	120
gatttaattg	taaataatgaa	agccaaaagta	ttcctgaatg	gtcaaataca	gcaataaagg	180
cagaagaatt	aagatttttc	tttgttccat	tgtacagtgt	aaataactaa	gttggttaact	240
gtcaagtcca	gttatgtatt	ctgtaagttg	tgttctagtc	tttgactaaa	atttatcatc	300

<210> 1486
 <211> 278
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(278)
 <223> n = A,T,C or G

<400> 1486						
atcgagaact	cttactacaa	gctncttggt	ctttttgcag	gateccatng	attcnaattc	60
cggttgctgtc	gccaaaatgg	cgcggtgtgt	gaaggctgca	gccgcgaatg	ccgtaggggt	120
tttttccaga	cttcaagctc	ccattccaac	agtaagagct	tcttccacat	cacagccctt	180
ggatcaagtg	acaggttctg	tgtggaacct	gggtctactc	aaccatgtat	ccatagcagt	240
ccaaattngn	antntgctgt	tnnaatntat	nacaatat			278

<210> 1487
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1487						
aattccggtg	ctgtcgggga	gtccttggtg	ccatccatcc	ctagggggta	atthttgttcc	60
ctgaggctgc	tttctagggg	cttctggtcg	cttggtttat	cctggaccag	acctgaaagc	120
agagcctgaa	ataaggcctt	ctatgcacat	catttatgta	ggagggtggcc	ctaggaagca	180

```

ggcccaatgc gccatgggaa aaaccagtac caggggtgttt tgctgagttg agcactgttg      240
tgggcagctg gacatgagcc cactggaatc ttctgaagag cccaagagcc tcttctcagt      300

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<210> 1488

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1488

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aattccgttg ctgtcgggag gcaggtgatg cagtttggac ggattgatgg cagtgcgtac      60
attctggact tccagtatcc gttctcagcc gtgcaggcct ttgcagttgc cctggccaac      120
gtgactcagc gcctcaaatg aagagactgg tgtggggagg agagagatgc agagagcctt      180
tggaagaggt cttcggagat gccagaggag ccctctaggg gtccgatgcc tgggaggacc      240
acaagccaac agcaaaactg gaaaagcccc gcaggcccgag gagagggcgc tgacctgttg      300

```

<210> 1489

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1489

```

aattccgttg ctgtcggacg gaaaccatgt ttgtggctcg cagcatcgcg gcggaccaca      60
aggatctcat ccacgatgtc tctttcgact tccacgggag gcggatggca acctgctcca      120
gcatcagag cgtaaggtc tgggataaaa gtgaaagtgg tgattggcat tgtactgcta      180
gctggaagac acatagtggg tctgtatggc gtgtgacatg ggcccatcct gaatttgggc      240
aggttttggc ttctgtttct tttgaccgaa cagctgctgt atgggaagaa atagtaggag      300

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<210> 1490

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1490

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aattccgttg ctgtcgcaaa aaacaacaac aacaaaaaaa aactgttaac aatttttctg      60
tctgtgttca tgaggtgtgt tagtctgttt ttggttcctt gtaatgtctt ttttctgagt      120
tatttgctgg cccttccctt taattttctg caagagtttg tagaaaattg tattacctct      180
cctgaaatat ttgctagaat tcaactagtga agctgcctgg ggctggagtt tctttaata      240
tagagctgtt cagatagtct gtttattctt ttccgtttct gaaagtttgc atctttaag      300

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<210> 1491

<211> 268

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(268)

<223> n = A,T,C or G

<400> 1491

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aattccgttg ctgtcgtgga gatggagcgg atgatgcagg cgggcactcc catgggcatg      60
gagtttggtg gaggccgggg cctcctgagc cctcccatgg ggcagtctgg gctgaggagg      120
gtggaccac ccatggggcc aggcaacctc aacatgaaca tgaatgtcaa catgaacatg      180
aacatgaacc tgaacgtgca gatgacccg cagcagcaga tgctgatgtc gcagaagatg      240
cggggccctg nngacttgan gggcccca

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<210> 1492
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1492
 aattccgttg ctgtcgaacg tcttgaagaa tagtgaaaag tcaaagtttc aacagcatgt 60
 gcctttccgg gaaagtaaac tgactcacta ttttcaaagt ttttttaatg gtaaagggaa 120
 aatttgatg attgtcaata tcagccaatg ttatttagcc tatgatgaaa cactcaatgt 180
 attgaagtgc tccgccattg cacaaaaagt ttgtgtccca gacactttaa attcctctca 240
 agagaaatta tttggacctg tcaaattctt tcaagatgta tcactagaca gtaattcaaa 300

<210> 1493
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1493
 aattccgttg ctgtcgggtg agtgggtccgg ggatggcagt gggaccctgc agaggagtgg 60
 ctctcttggc aagatccggg atgtgctccg cagaagcagt gaactcttgg tgaggaagct 120
 ccaggggact gagcctcggc cctccagcag caacatgaag cgagcagcct ccttgaacta 180
 tctgaaccaa cctagtgcag caccctccca ggtctcccg ggcctcagt ccagcaccat 240
 ggacctctct tcaagcagct gacattcaac cgggccccca ggtctgctgg gtccccccac 300

<210> 1494
 <211> 252
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(252)
 <223> n = A,T,C or G

<400> 1494
 aattccgttg ctgtcgtgga gactttgatt cgaagcccag ttgggcccag caggtggggg 60
 aggtgtgaga gggttttacnn agatctnact tgctagtcca caaatgccac atgtggacat 120
 gcnnacccac tcaccctgtg ctgnctccac atntgtcaag ccctgaaacg cttcacaaga 180
 cagacttttc tcttcgaagg gaaacctat cttgcatttt actctacgct gntctttttt 240
 tttgagactt ga 252

<210> 1495
 <211> 262
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(262)
 <223> n = A,T,C or G

<400> 1495
 aattccgttg ctgtcgatga ggtgctggtg tgtggatgga tgaggtgctg gtgtgtgggt 60
 ggatgaggtg ctgggtgtgc gatggatgag gtgctgggtg gtggatggat gagatgctgg 120
 tgtgtggatg gatgagatgc tgggtgtgtg atggatgagg tctgtgtgna tnnatnaatn 180
 nctattnctt tnnnccnaa ngcnntnntt cattntant attatnnncn ttnctttcaa 240

actnntnttn ncattattat nt

262

<210> 1496

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1496

aattccgttg	ctgtcgccgg	cctcctatgc	cttcttttccg	ggcctgtttt	aagagcattt	60
tcagaataca	cacagaaaca	ggcaacattt	ggacacatct	cttaggttgt	gtattcttcc	120
tgtgcctggg	gatcttttat	atgtttcgcc	caaatatctc	ctttgtggcc	cctctgcaag	180
agaagggtgg	ctttggatta	ttttcttag	gagccattct	ctgcctttct	ttttcatggc	240
tcttccacac	agtctactgc	cactcagagg	gggtctctcg	gctcttctct	aaactggatt	300

<210> 1497

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1497

aattccgttg	ctgtcgcgac	agcaacgggtg	acatcttttcc	tcggctcctg	tttgatctt	60
cttcagatct	taatggaggc	agatgttagc	agggatgaaa	tacagggtgc	tgtgctggat	120
actgaggatg	cgtggctctc	cgtggaagga	ccaatctcca	tagtggaact	ggcccttgaa	180
cagaagcaca	tccactaccc	actgggtggag	caccactcca	tcctgtgctc	catcttgrat	240
gcagtcatga	ggttttctct	gaagaccgtg	aagccacttt	cactttttga	cagtaaggga	300

<210> 1498

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1498

aattccgttg	ctgtcgggtt	gcttaacaga	gtaaaaatgt	ttttaaaaag	tttaaagttt	60
ataaagtaaa	agcattacaa	taacctaat	ttaattttatt	atggaagaaa	gacattttta	120
aagataaatt	tagtttagcc	taggtatata	gtctaactat	agctggagtc	ttcaacatac	180
ctctatcaac	atttgataaa	acaagccaga	aatcatcaag	gatatagaac	catcaccatc	240
aaccagcaga	atctcattga	catttataga	acacttcacc	cagcagcagg	atacacattc	300

<210> 1499

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (300)

<223> n = A,T,C or G

<400> 1499

aattccgttg	ctgtcggatt	tctactctgt	ctcctcaact	ctgttgatat	ttggggaaaa	60
ttctgttttt	catagattct	ttgagatgct	gatggaccag	cttcagcatg	tttgagggtg	120
tctgaaatgg	agatcactgt	aaaactgtct	ttttctttta	aattacaagt	acactggggg	180
taactgtatt	gctggaaaaa	catcaagaat	gacagtctta	tatttaaggc	accagtcatt	240
ggttccattt	ttttttttaa	ttcttccctt	ggattaatat	tttctactga	anagaaatga	300

<210> 1500

<211> 292
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1) ... (292)
 <223> n = A,T,C or G

<400> 1500
 aattccgttg ctgtcggaga tatgcgggca attcagcctg atgcagggtta ttacaatgat 60
 ctgggtccac ctataggaat gttcaataat cctatgaatg cagtaacaac aaaatttgat 120
 cctacatcaa caaatttaagc aaagtgtcct gtattccttag tgctttggac taancaanga 180
 atacgnttan ntacttgacc acttaccctc ctatcantgg tgnctaatac ctatgttaca 240
 cgatnaagac acagggttan nactttgccc atatagttaa nttattgaca ga 292

<210> 1501
 <211> 297
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1) ... (297)
 <223> n = A,T,C or G

<400> 1501
 aattccgttg ctgtcgggct ggagtgcagt ggctcaatct cggctcactg caaactccgt 60
 ctcccagggt cacaccattc tctgcctca gcctcccgag tagctgggac tacaggcacc 120
 tgccaccacg cccggctaata tntttttttt tngggatttt aantaanaac gggntttcat 180
 natgttacc ngnatggngc taatntccng acctggggat cccccenttt ngncnccca 240
 atgggctggn attncnggcn tgagccacna cncntagcct tcccnatcta tttttca 297

<210> 1502
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1502
 aattccgttg ctgtcgaatc tctgtattat agctatttgt ctaacattac cccacatgta 60
 ataaataaaa caatatgagc ataattgccc cataaagaac tcatgtcctg aattaataag 120
 tcttttcatt gccagtcact tgtgcaattt atagagacta tcaacttttt tgcaccatat 180
 atgaaggaaa caaagtgcaa aaagtgtgct ctctccctta agaaaattga gtgcttatag 240
 cctatgtcct ccatataaaa aagtaagaat atcagtcttt ttaatgttat tctaagaaaa 300

<210> 1503
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1503
 aattccgttg ctgtcggaga aatccatcaa caaaattggc cagctctgc acgcccacga 60
 ccccgctctc aagagcatca cacactcctt caaggtgcag accttgcca gaagtctggg 120
 cctccagatg cccgtggtgg tgcagagcat gtacatcttt aagtctcccc tcatcaggac 180
 gcctccttcc tgtacacgga gcccctgggc cgggtgctgg gcgtgtggat cgcagtggag 240
 gatgccacgc tggagaacgg ctgtctctgg ttcacccctg gctcccacac cagtgggtgtg 300

<210> 1504
 <211> 267
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(267)
 <223> n = A,T,C or G

<400> 1504
 aattccggtg ctgtcgacgc attctacctt ttcttacaat gaatccacca gcagaaattc 60
 ctgtacacat cttatcaaca aagaatttga acctcaaaga attctcactg tggtacctag 120
 gctgcagtgc agnggtgcga tctcaactca ctgcnacctn tacctcctgg nntnaancnn 180
 ntctnctgtc tnancnannn tanntntcat tntctacnnn ncttnnttgn nnannctagt 240
 ntntttntcn tatntcatnt ctncac 267

<210> 1505
 <211> 293
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(293)
 <223> n = A,T,C or G

<400> 1505
 aattccggtg ctgtcggagg actgcttgag accagcctgg ggaacatagt gtgaccttgt 60
 tgctatgaaa aaaaaaaaga aaataancca ggctgatggc acatgcctcn agtcccagct 120
 tcacaanagg ttgaggtnan anaantgctt gaccanaag annaganncn atannngnga 180
 nattaanngn aggnnngcat tntnctnnnn tagnnnnnnn ctngacnntt gtcntnanna 240
 ttctnngta tttnnccaan gaatngacnn atnaagnntn ctctnctcta aat 293

<210> 1506
 <211> 296
 <212> DNA
 <213> Homo sapiens

<400> 1506
 aattccggtg ctgttccggt gctgtcggcc taagcataaa accaaaatta taaaactcct 60
 agaagataac acaggagaaa acctggatga ccttgggttg gcaatgactt tttagatata 120
 ataccaaagg catgtcctt gaaagaaata attaattgag aagccagaag gcaaaatggt 180
 acagccattt tggaagacag tttggccggt tctcacaaaa ctaaatatac tcttaccata 240
 ccatgcagca attatactcc ttggtgttta cccaagactt gaaaacttgt gtctac 296

<210> 1507
 <211> 286
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(286)
 <223> n = A,T,C or G

<400> 1507
aattccggtg ctgtcgggtt gatcccataa aaccctaaacc tccacaatct aaattgcttc 60
gtgaagataa gaaccataac atgtatgttg caggatgtac agaagttgaa ctaaacttac 120
tgtacngnnt tataggcaca gtctaagaat ncaactattac ctacagggnnc ngtaatatan 180
aagaaatngn nntgagggan annnancact ctttcttann aactnatcag cncnnntaga 240
tnttgggnta anaaaatacc gggngaaacc nncataaaat gattaa 286

<210> 1508
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1508
aattccggtg ctgtcgggtca gtttttctag attggcaata gcctgttgca aagtgcctaa 60
acctttgaga aaaattacta tgagcaaggt ccatgattta gttttcaata taaagggaaat 120
tccattctat actgtaaaaat ccaaaaatgc tagttgccct cagcttttga gttgacttcc 180
agaaagttga gatcttttga ccattttttc tcgtgtcata taaaatgtgc cacatggtag 240
ttgtcaagct gtggtagtca tgtacacttt tttctttttt ttaactttct aaaaggaaaa 300

<210> 1509
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1509
aattccggtg ctgtcgggtga ttctaattga atgcagtga ctgagaggaa ttatgaacta 60
ccaggaggtg gaggccctga agcacaccat caagctcctg acggtcatta aatggcatgg 120
acaaaaatgc aacaagttga actccaagtt ctggaaacgt ttacagtatg aaatgccttt 180
taagaggata gaaccatta cacatgagca ggcttttagat gtcagtggagc aagggccttt 240
tggggagctg cagactgtct cggccatttc catggccgag gccacctcca cagctctagc 300

<210> 1510
<211> 258
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1) ... (258)
<223> n = A,T,C or G

<400> 1510
aattccggtg ctgtcgggtcg gggtttcgta cgtagcagag cagctccctc gctgcgatct 60
attgaaagtc agccctcgac acaaggggtt gtgcaataat tgcttcattt tcttgagcaa 120
tactgaagca ggatgaagta agaggaatgc attcattaaa acatgctttg ctttatgaat 180
tnttggctct nttttatgtc nctnttnnt antnnnnnan ttnnattann ntnannttat 240
tgttatntna ttannana 258

<210> 1511
<211> 300
<212> DNA
<213> Homo sapiens

<400> 1511
aattccggtg ctgtcggcct aagcataaaa ccaaaattat aaaactccta gaagataaca 60
caggagaaaa cctggatgac cttggggttg caatgacttt ttagatacaa taccaaaggc 120

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atgtctccttg aaagaaataa ttaattgaga agccagaagg caaaatggta cagccatttt      180
ggaagacagt ttggccgttt ctcacaaaac taaatatact cttaccatac catgcagcaa      240
ttatactcct tgggtgtttac ccaagacttg aaaacttgtg tctacacaaa aatctgcacg      300

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<210> 1512

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1512

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aattccgttg ctgtcggctg gtcttcctcc ggcccgggccc ctggcccagc tagccggcca      60
tggaagtga gaaaatgttt ggaagctctg tgaatacatc aaaaaccatg accagtatcc      120
tttagaagaa tgttatgctg tcttcataac taatgagagg aagatgatac ctatctggaa      180
acaacaggcg agacctggag atggacctgt gatctgggat taccatgttg ttttgcttca      240
tgtttcaagt ggaggacaga gcttcattta tgatctcgat actgtcttgc catttcctcg      300

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<210> 1513

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1513

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aattccgttg ctgtcggcag aggcagatgt gttgctgagc agaaatgaca aagagggtgt      60
ttctgtccct tgggcctgag ggtccggtgg cagagccaga catgacaaca atgtaaagca      120
ccagcaaaat gtgatgtcaa agggaagcag aaatacatc aatctgatag gaggacctag      180
gaaggctctt gtgaagaaca ggaaggattg caccagaaag ctctgtctgc ttctgtaccc      240
cgctgtccc tccagctgc gcagggccccc ttcgtgggat catcagcccg aagacagga      300

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<210> 1514

<211> 295

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (295)

<223> n = A,T,C or G

<400> 1514

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aattccgttg ctgtcgaaga ggctgaggcg ggagaattgc ttgaaccag gaggcagagg      60
ttgcagtga ccaagatcac accattgtac tccagcctgg gcaacagagt gagactctgt      120
ctcaaaaaaa aaaacaaaaa aanaanaaaa aanaanaaag gaaanaangg gaaaggaaag      180
gaaaanagan aganaaan anaaanaaan acncttctnt tccgnaaagc cagccgnatt      240
cntcccagcg tnttnttgg ngctctgnnca tggataaagc ctcccnattc ccccg      295

```

<210> 1515

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1515

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aattccgttg ctgtcggatg aagccatctg gtctctgggct tttctgtgtt gggagggttt      60
tgattactga ttcaatctct ctcatattg gtctgatcag actttccatt tcttcatgat      120
tcaatcttgg taggttgtgt gtttcctcta gaaattgggc catttcttct aggttattaa      180
attttagggc atacaattct tcataatatt ctcttataat cttttttatc tctgtcgtat      240
tggtagtaat gttccctctt tcatttctga ttgtagttat tgaatgttct ttttttttct      300

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<210> 1516
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1516
 aattccggtg ctgtcggttaa cttaaataact atcgtataat aatcatatca tataaaaagtc 60
 agtgcaactt acattacatg gtgagataag agagagaaga aaacaaagggt actgcttaat 120
 atacacattc acacagacat attcataata aaataggagg aaataacttac aacaattaca 180
 atcctcatct ctgtagctgt tcacatgggtc gtggctggta tttataatta ctttgtctac 240
 tatccaatct gtattccccct tcccttcaga aagcgccetca gctgggcatg gacccttacc 300

<210> 1517
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1517
 aattcggttg tggtcgcccg atgaagagggt gagctcccct tcgccccctc agcgagccca 60
 gcgtggggac cactcttccc gggagcaagg ccacgcccct gggggcactt ctcaggccag 120
 acagattgat tccccgtgc ggatcctggt cccacccag tttgttggtg ccatcatcgg 180
 aaaggagggc ttgaccataa agaacatcac taagcagacc cagtcccggg tagatatcca 240
 tagaaaagag aactctggag ctgcagagaa gcctgtcacc atccatgcca cccagagggg 300

<210> 1518
 <211> 129
 <212> DNA
 <213> Homo sapiens

<400> 1518
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 ggcagcgggt aagggttcca agccagaccc aacaccctta ccacttggca cccagagggg 120
 gctgcacct 129

<210> 1519
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1519
 aattccggtg ctgtcgatac tctggtgacc agtggagtgt acgcttggtt tcggcaccct 60
 tcttacgtcg ggtgggttta ctggagtatt ggaactcagg tgatgctgtg taaccccatc 120
 tgccggtc gctatgccct gacagtgtgg cgattcttcc gcgatcgaac agaagaagaa 180
 gaaatctcac taattcactt ttttggagag gtagacctgg agtataagaa gaggggtgcc 240
 acgggcctgc ctttcataaa ggggggtcaag gtggacctgt gacgggcagt ggccccggtg 300

<210> 1520
 <211> 296
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1) ... (296)
 <223> n = A,T,C or G

<400> 1520

aattccgttg	ctgtcgagag	gagaacaaac	tggttgetga	agccatgggt	ccccgggaa	60
gggggaccca	cctgtcgggc	acctggaatt	cagaggaagg	gctcncatnc	ttgtgggnaa	120
atgannaaca	tggccattan	nantgetggn	atngngnang	cncncntatc	tngacagnna	180
ctangnatnc	naggngact	tttctgaata	tgngngnann	nntttacnnn	ccccnntgn	240
ntgntacctg	ngtgcggntn	ctntgacaan	ctggtgcntn	antncattcc	gaatca	296

<210> 1521

<211> 283

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(283)

<223> n = A,T,C or G

<400> 1521

aattccgttg	ctgtcgtaga	cttttggttg	aacctcatca	ctcgaactcc	agcttcaaga	60
atgtgttttc	atgcccggcc	ttgtttcttc	cataaatgtg	tccttttagt	tcaaacagat	120
ctttatagtt	cgtgtttcat	aagccaattt	ttattattat	ttttggggna	ctntncttcg	180
gaagattgcc	ntgaagnntn	nnnnaattaa	nagngacttt	ngnanaanac	tnnnattann	240
tangtnncnn	nacntnanna	anattnnang	antttgagga	gtt		283

<210> 1522

<211> 292

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(292)

<223> n = A,T,C or G

<400> 1522

aattccgttg	ctgtcggttg	ggctgaccac	gttactcatc	cccgttaaca	ttctctctaa	60
agagcctcgt	tcattttccaa	agcagttaag	gaatgggaac	cagagtgttt	taggacctga	120
agaatcttta	tgactctctc	tctttcactc	tttttttttt	ngccnntann	tnaaanncaa	180
agngnnngtt	tnanegtttt	ngtnntcttc	gggccccnng	ttncannnan	gggncaaaag	240
ntttggntnt	aagncnatcc	cncntnaaa	ttnggggacn	aatttttaatt	cc	292

<210> 1523

<211> 269

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(269)

<223> n = A,T,C or G

<400> 1523

ccggaatacc	tctactcggt	cattttgcag	gancccatng	attcgaattc	cgttgetgtc	60
gattgtcagt	ttgatattta	ttttaaattg	tggaactaga	tgcataaatt	cacatttctg	120
cccttctctt	gcattctctc	atatattgtg	tttttttttt	tttcccnaaa	aaaanantta	180
aanncattnt	tnancngnaa	aaaccnnnnn	tnntgtanc	ccangantta	nncccggncc	240

nanngnannnn atnttaaatgt anaattttta

269

<210> 1524
 <211> 265
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(265)
 <223> n = A,T,C or G

<400> 1524
 aattccggtg ctgtcgagga gatgcagttc ttaatgaagc tgctcaaatt ctgcgattgc 60
 tgcacataga ggagctcaga gagctacaga caaaaatcaa cgaagccata gtagctgttc 120
 aggcaattat tgctgatcca aagtnanacc acagactgtg aaaagttgga cgatnagtac 180
 ntgatgnnt cngntaggta ncnnnancta ttatgncnan ctacanagnc tcggngccnn 240
 gcagngctnn ntncctnnat tcttg 265

<210> 1525
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1525
 aattccggtg ctgtcgggtc agtgccaaga gggcccggca agaagaagtg acaatgaagt 60
 cttttcttgc ggacactccc tcctgtctcc tattttctgt aaataatttt ctcctttttt 120
 ctctcttgat gctcaccacc accttttgcc cctttctgtc tgactttata agagacagga 180
 tttggattct tcagaaatta caggaataat catttttctc taccagttg tggcaagggc 240
 caggcaccac ccatctaag atgaagaagg acctaaaatt tggtttgcta atacccaact 300

<210> 1526
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1526
 aattccggtg ctgtcgatga gaataaagtt agaatgagaa tgttcctagc atggtgcctg 60
 gcatgagcag attctcagca gatgggccct cctgtaatcc gctgagggct ctcctgagc 120
 gccagcaggg atcctagtca ttgtctccac cactcctgtc tgtcttcacc cagaaccttg 180
 tctggatcct gggaggaagc aaacatctcc tggagggaat gtgaggccct gccaggtgtg 240
 aggagtaact ggaaaagggc aggtggccct gccactatg tgggcacctc atgataaatg 300

<210> 1527
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1527
 aattccggtg ctgtcggaaa atattattat gttagtttta gcgtggaaat tggaggctga 60
 aagcatggga ttttttacca aggaagaatg gttaaaggga atgacttcat tacagtgtga 120
 ctgcacagaa aagttacaaa acaaatgtga ctttttgctc tcacagttga atgatatttc 180
 gtcatttaag aatatctaca gatatgcctt tgattttgca agggataaag atcagagaag 240
 ccttgatatt gatactgcta aatctatgtt agctcttctg cttgggagga catggccact 300

<210> 1528

<211> 300
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(300)
 <223> n = A,T,C or G

<400> 1528
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 accgtagcca gacatgggac tggaggacga gcaaaagatg cttaccgaat cgggagatcc 120
 tgaggaggag gaagaggaag aggaggaata aanggtaana actggnttac anntgctttt 180
 atatgangaa tcaaaggcna nancnctntg aggtagtntt acctnnacct gcgntntnct 240
 atgntctttt antgctgngt tgaanggtnt nannatnnnt ananattnnna aanccagctg 300

<210> 1529
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1529
 aattccgttg ctgtcgaaaa gccttaatgg ccatgaataa cctgagtggag aattatgaaa 60
 atcagggccg gcttcaggtg tacatgaata aagtgatgga tgatatcatg gcctctaacc 120
 tgaactcagc agttcaagta gttggactaa aatttctaac aaacatgact attactaatg 180
 actaccaaca cctgcttgct aattccattg caaacttttt ccgttttgcta tctcagggag 240
 gtggaaaaaat caagggttgag attttgaaaa tccttttcgaa ttttgctgaa aatccagata 300

<210> 1530
 <211> 261
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(261)
 <223> n = A,T,C or G

<400> 1530
 aattccgttg ctgtcgggac actttgtgat ttccattaag gccaaactgca ttgactccac 60
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 gccgcaggag cagttgaccc ttgagccata tgaaagagac catgccgtgg attnatngat 180
 atgnatnnta anannannnn gtnnnntaan naaagttcnn ntanatnatn atnttaatch 240
 gnnattannn aanntntgng c 261

<210> 1531
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1531
 aattccgttg ctgtcgccaa gtccatgcgc tccatgaatg gctcgcggcg gaacagtggc 60
 tcctcgctag tgtccagctc ctcggcctcc tccaacctga gccacctgga ggaggacacg 120
 tggatcctgt ggggcccggat cgccaacgag tgggaggagt ggcggcgag gaaggagaag 180
 ctgctcaagg agctgatccg caagggcac cccaccact tccgggcat cgtgtggcag 240
 cttctgtgca gcgccacgga catgcccgtc aagaaccagt actccgagct gctcaagatg 300

<210> 1532
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1532
 aattccggttg ctgtcggagc aattaaattc attgtctcag ttcaagagtg aatatagcaa 60
 cttatgtgaa cctgagcagt ttgtggttgt gatgagcaat gtgaagagac tacggccacg 120
 gctcagtgtc attctcttta agcttcagtt tgaagagcag gtgaacaaca tcaaacctga 180
 catcatggct gtcagtactg cctgcgaaga gataaagaag agcaaaagct ttagcaagtt 240
 gctggaactt gtattgctaa tgggaaacta catgaatgct ggctcccgga atgctcaaac 300

<210> 1533
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1533
 aattccggttg ctgtcggccg gaaccacgag gagagcagtg agaccatgaa tgacttgctg 60
 gcccaggttg ccactaacac ggacaccagc cgaaatgccg gaaatgcggt cctgtttgag 120
 acagtactca ccatcatgga tatccgctct gcagctggcc tacgggttct agctgtcaac 180
 attcttggtc gcttcctact caacagtgtg aggaacatta ggtatgtagc cctgacatca 240
 ctgcttcgac tgggtgcagtc tgatcacagt gctgtgcagc ggcatcggcc cactgtggtg 300

<210> 1534
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1534
 aattccggttg ctgtcgaaaa taaagaggaa agccttttgg aaaagcgcag gcagctgtct 60
 cgtgatattg gtagattgaa agaaacatat gaagctctat tagccagatt tcccaatctt 120
 cgatttgcac acaaggatcc agagaagaac tggaaatgaa attgtgtgaa aggacttgtg 180
 gcttctctga ttagtgtgaa agacacttct gcaaccacag ctttagaatt agtggctgga 240
 gaacgactct acaatgttgt agtagacaca gaagttactg gtaaaaagct actagaaagg 300

<210> 1535
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1535
 aattccggttg ctgtcgggtc tgcattagca tctgctggtg atcctggaca tccaaatcat 60
 cctcttcacg cttctcagaa ttcagcgaga agagagagga tgactgcgcg agaagaagct 120
 agcttacgaa cacttgaagg cagacgacgt gccaccttgc ttagcgcccg tcaaggaatg 180
 atgtctgcac gaggagactt cctaaattat gctctgtctc taatgcggtc tcataatgat 240
 gagcattctg atgttcttcc agttttggat gtttgtcat tgaagcatgt ggcataatgt 300

<210> 1536
 <211> 242
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(242)

<223> n = A,T,C or G

<400> 1536

aattccggttg	ctgtcgattt	tattttgac	cttgttaaat	ttttatttta	attaataagg	60
tagtcattcc	tgtagaggga	taagatgctt	gtagagtgt	gggtatcatt	ccaaatagaa	120
ctgttatgat	ttgggaaata	ttctttacta	caaaggactt	atttcataat	tacaaatttt	180
ccttcatatt	tgcctttgnn	nataaanant	nnaggaanga	cattntntag	cantannagg	240
aa						242

<210> 1537

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1537

aattccggttg	ctgtcggtgt	gtgtgtgtgt	gtgtgtgtgt	gtgtatggag	atgctgaaag	60
agcattgata	aaattctaga	ctttcctaac	aataacccca	agtaaaacaa	gaatagaaga	120
aattgcta	gttataaaga	ctacttgat	aaaactaatg	tctaaatagg	gaagcactaa	180
agccatttcc	tttagaatca	gaaacaaaac	aagaatgcac	attatcatca	ttattattca	240
acattgtttt	agaaattcta	gagactgcaa	tacacaagaa	atgaaatatt	gggtatgaat	300

<210> 1538

<211> 260

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(260)

<223> n = A,T,C or G

<400> 1538

aattccggttg	ctgtcgga	tgcaaggggc	tgcattgacct	accaggacag	aactttcccc	60
aattacaggg	tgactcacag	ccgcattggt	gactcacttc	aattgtgtcat	ttccggctgc	120
tgtgtgtgag	cagtggacac	gtgaggggga	ggtgtgggag	ggttnnagtc	tgcnnngntn	180
ntgctcnnta	cntnncnntn	ctncttttct	aaccgncnna	tnnnngcnca	tgnagantnt	240
ntanngcact	ttncctnngtc					260

<210> 1539

<211> 284

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(284)

<223> n = A,T,C or G

<400> 1539

aattccggttg	ctgtcgaaaa	tgcccagtc	ggtctgaatc	gtcagtgcat	tatattgact	60
ctgagcactt	tagaatttag	agttgcaatt	gaatgccagc	tgtggagatg	gggtgcatat	120
cagatatata	aataaagctc	angtttgtn	nggaaccnng	tattnnnaaa	nnctcttntg	180
anntntntnt	nnctnnantn	tntanagnna	tnnctttntt	tntaaanntt	nnntnnaggg	240
nnatantngn	nnctttgttn	atananncnn	nanacctgtt	tttt		284

<210> 1540

<211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1540
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 ttgctatagg aaaaacttaa acatgagtga gcaaagagga ggatgcaact gaatattttt 120
 ggaaatgtgg atatcatata agggcttgga agatcaacac tgggatgatg atgagcagaa 180
 tggtcatgaa gatgccccaa atcagggccc agatgttcag gcacttggcg gtggaggcat 240
 aggcctgggc gccagtcagg tcgccaacca tcttcctgtg cctagacttc acggagtaag 300

<210> 1541
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1541
 aattccggtg ctgtcgggca cgtcctcgtg tatcctgtgg aggacctga cccgcacccc 60
 caccctcgag gccagaaatc gggtgcctct ggggacctga gaagcgagac cactcgcgcc 120
 cctgacttgc aagttggggc ctttattggc ctccgggatt ctgctcgtgg cggtttctcc 180
 aggctgtgta tgggcaagcc ggggtgtacca agtccaggat gcacatgagg agccgtttgt 240
 aaccgcactg aatcacctca tgactagcgg ggcaggcctc taattcaccg cagggaatttc 300

<210> 1542
 <211> 265
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(265)
 <223> n = A,T,C or G

<400> 1542
 aattccggtg ctgtcggatt ctccccctct tgaaaaaaaaa tcgatttttc aggatttaat 60
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 ttttccaaga tagaaaaagc atttatccta acaaattgggt attttttata agcctccatg 180
 tggctctgaa tgcaagctat atatagttag tttttctaaa ttaaggaac tctgcttttt 240
 tttttttttt ttaanaaanc gggnc 265

<210> 1543
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1543
 aattccggtg ctgtcgggtg aggggcccggt tcgaagagtc gtgaggggggt gacgggttaa 60
 gattcggaga gagagggtgct agtggctgga cttgacctgg aaagaatctt ctgctgactc 120
 tcaacttttc ctggaaaaaa tggatcattc ccaccatatg gggatgaagc tatatggact 180
 ccacagtacc atgcacctt tcaccatacc ccaccccttc accttacact cccatggggg 240
 aaggagacag cagcatgatg atgatgccta tgacctctac ttggctttaa gaatgtggac 300

<210> 1544
 <211> 300
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(300)
 <223> n = A,T,C or G

<400> 1544
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 atgaggagac caacttacac aacccatcaa atacttatgc tcctcatagc caaggaggta 120
 ttccacctcc tgctggaatg taattaaagg gagaaacaca ctgtatgaaa tatatgtcta 180
 tatcatgact tggtgccaac atcttgaggc acattatttg tttccaataa aagtaatggt 240
 tttttttttt aannccccc ntagatatca cctcacaccc atcagantgg ctactgtaaa 300

<210> 1545
 <211> 267
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(267)
 <223> n = A,T,C or G

<400> 1545
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 gaggagatac cttgagaagc ggagcaaaca cagcaagaaa gtgntgaaga ctggncantc 180
 ccctatngac ttntgatcac accagaangn atcncattca agnancnnnc catntatant 240
 tnncccttacn ntaannnnnt nnctngc 267

<210> 1546
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1546
 aattccggtg ctgtcgggag taccgggatt ctgatggaac ctcatctgtt tgaattacta 60
 gccagagggg tcatcactct ttacctgcaa acagtacctt ctctgatgtc tgggagaggt 120
 gggtttatttc ccatatactt gttaagtgtg gatcttgggg aagaacaact aacaccagaa 180
 acatcacatg ttggctgttg gggaggtgct tgtccatttt gtatcccttt ttttttttcc 240
 caatcaacag agatccagtt agaaggagca gcaagacctt ccaggaggcc atgctggaag 300

<210> 1547
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1547
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 tacagctgag gaacccgccg cgccggcagc tgaaaaagtt ggatgaagat agtttaacca 120
 aacaaccaga agaagtattt gatgtcttag agaaacttgg agaaggatta ctgtagatgc 180
 agtatatgga atcaggaatc ttaacttcat gtgagctatt ggagtttcc tttgtatcag 240
 gatcataagg gaggggtctat gcagcgtata caagctattc ttaaggagac cggccagatt 300

<210> 1548
 <211> 300
 <212> DNA

<213> Homo sapiens

<400> 1548

aattccggtg	ctgtcgggtc	tgttttgttt	ttgggtttctc	ccttggtgtca	gttctcttct	60
ggcccagctg	ggtggctgtg	gaagtctgtg	aggtggccca	accacaagca	tacctattaa	120
gagaagccca	gagcttccag	ccccacttc	gaaaactctc	tctggcccac	atagcaaact	180
ccttcttccg	tatttttccc	aaccccagaa	tttttttaaa	aaggccactt	tgccggaacc	240
ttctttgggc	cattttggtt	tccaatcaag	cccaagggtta	tatgaataaa	gggggttaac	300

<210> 1549

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1549

aattccggtg	ctgtcagca	ctctatgttc	gttatctcat	ttgctctaag	tatgtaaata	60
gggaactgat	gaataaaaaag	gtgagtgaag	tgacttggtc	acaaaaaaag	tgataaaaaat	120
ggggattaca	gttcagtttc	attgactctt	agaatttttt	ctccttctcc	ccagcttttc	180
atattgaaaa	aattcctaac	atacagtaaa	gaacagaaca	acaagcacct	agattaaata	240
gtcattaatg	ttttgccata	gttgcttgat	ttttctttct	acacacacac	acacacacac	300

<210> 1550

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1550

aattccggtg	ctgtcgtttt	tacggaatta	agcagagaaa	atgatgaaga	gaaagtcacg	60
tttaatttga	gtaaaggagc	atgtagctca	tccggagcaa	catcttccaa	gtcaagtact	120
ctgggaccga	gtgcactgaa	gacgatagga	agttcagcat	cagtgaacacg	aaaagaatct	180
tcccagagct	caactcagtc	taaagaaaag	aagaaaaaga	aatctgcact	ggatgaaatc	240
atggagattg	aagaggaaaa	gaaaagaact	gcccgaacag	actactggct	acagcctgaa	300

<210> 1551

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(300)

<223> n = A,T,C or G

<400> 1551

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ataagataca	ttgatgagtt	tggaacaaacc	acagctagaa	tgagtggaac	aaaatgtctt	120
atttgtgaaa	tttgtgatgc	tattgtctta	tttgtaacca	ttataagctg	caataaaaca	180
gttaacaaca	acaattgcat	tcatttttatg	tttcagggttc	agggggaggt	gtgggaggct	240
ctnatgtcca	ccagnagttg	ttcnaccct	cnccangtnc	caggtgggat	cacctgatac	300

<210> 1552

<211> 244

<212> DNA

<213> Homo sapiens

<400> 1552

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aattcaaggc ctctcgagcc tctagacatt gcggccgcta tctacgtaga tccagacatg      60
ataagataca ttgatgagtt tggacaaacc acaactagaa tgcagtgaaa aaaatgcttt      120
atttgtgaaa tttgtgatgc tattgcttta tttgtaacca ttataagctg caataaacia      180
gttaacaaca acaattgcat tcattttatg tttcagggtc agggggaggt gtggggaagg      240
ttaa                                     244

```

```

<210> 1553
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 1553
aattccgttg ctgtcgggta gaaatgggtc catttaaaca tacggttgat gatggctctgg      60
atattagaaa ggcagcattt gagtgtatgt acacacttct agacagtgtt cttgatagac      120
ttgatattct tgaatttcta aatcatgttg aagatgggtt gaaggaccat tatgatatta      180
agatgctgac atttttaatg ttggtgagac tgtctaccct ttgtccaagt gcagtactgc      240
agagggttga ccgacttgtt gagccattac gtgcaacatg tacaactaag gtaaaggcaa      300

```

```

<210> 1554
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 1554
aattccgttg ctgtcggcct tggtacagca aatactatcg atcagaaaaat tgtggaaaga      60
gcagctgcta aaaggaaact ggaaaagttg atcatccata aaaatcattt caaagggtgg      120
cagtctggat taaatctgtc taagaatttc ttagatcccta aggaattaat ggaattatta      180
aaatctagag attatgaaag ggaaataaaa ggatcaagag agaagggtcat tagtgataaa      240
gatctagagt tgttggttaga tcgaagtgat cttattgatc aaatgaatgc ttcaggacca      300

```

```

<210> 1555
<211> 299
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(299)
<223> n = A,T,C or G

```

```

<400> 1555
aattcaaggc ctctcgagcc tctagacatt gcggccgcta tctacgtaga tccagacatg      60
ataagataca ttgatgagtt tggacaaacc acaactagaa tgcagtgaaa aaaatgcttt      120
atttgtgaaa tttgtgatgc tattgcttta tttgtaacca ttataagctg caataaacia      180
gttaacaaca acaattgcat tcattttatg tttcagggtc agggggaggt gtgggagntt      240
tccntaatn taanancnntn atgncnctag natgttacat gatgncnngn ncctgtgct      299

```

```

<210> 1556
<211> 291
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(291)
<223> n = A,T,C or G

```

```

<400> 1556
aattcaaggc ctctcgagcc tctagacatt ggggcccgtc tctacgtaga tccagacatg      60
ataagataca ttgatgagtt tggacaaaacc acaactagaa tgcagtgaaa aaaatgcttt      120
at ttgtgaaa tttgtgatgc tattgcttta tttgtaacca ttataagctg caataaacia      180
gttaacaaca acaattgcat tcattttatg tttcagggtc agggggagggt gtgggaggnt      240
ttgnccccct ntggcctttc ctancancct tcnaacctna cnnnacacct c                291

```

<210> 1557

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (300)

<223> n = A,T,C or G

```

<400> 1557
aattccggcc tgtcgagcct ctagacattg cggcccgtat ctacgtagat ccagacatga      60
taagatacat tgatgagttt ggacaaaacca caactagaat gcagtgaaaa aaatgcttta      120
tttgtgaaat ttgtgatgct attgctttat ttgtaaccat tataagctgc aataaaciaag      180
ttaacaacia caattgcatt cattttatgt ttcagggttc gggggagggtg tggggagggtt      240
ttacaatgtc cgctccatgc ccatccgcaa ggacgacnag gccaggtagt tcnaggacac      300

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<210> 1558

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (300)

<223> n = A,T,C or G

```

<400> 1558
aattcaaggc ctctcgagcc tctagacatt ggggcccgtc atctacgtag atccagacat      60
gataagatac attgatgagt ttggacaaac cacaactaga atgcagtgaa aaaaatgctt      120
tatttgtgaa atttgtgatg ctattgcttt atttgaacc attataagct gcaataaacia      180
agttaacaac aacaattgca ttcattttat gtttcagggt cagggggagg tgtgggagggt      240
tttantncta gnnanattnt gnanatnatt ncttttaatc nnnngnatnt aattacatgt      300

```

<210> 1559

<211> 291

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (291)

<223> n = A,T,C or G

```

<400> 1559
aattcaaggc ctctcgagcc tctagacatt ggggcccgtc tctacgtaga tccagacatg      60
ataagataca ttgatgagtt tggacaaaacc acaactagaa tgcagtgaaa aaaatgcttt      120
at ttgtgaaa tttgtgatgc tattgcttta tttgtaacca ttataagctg caataaacia      180
gttaacaaca acaattgcat tcattttatg tttcagggtc agggggagggt gtgggagggtt      240

```

ttaancangn tcttgatgaa tgtgctttgt gccaaaatgc ctncctattg t 291

<210> 1560

<211> 297

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (297)

<223> n = A,T,C or G

<400> 1560

aattccgggc	tgtcgagcct	ctagacattg	cgccccgcta	tctacgtaga	tccagacatg	60
ataagataca	ttgatgagtt	tgacaaaacc	acaactagaa	tgagtgaaa	aaaatgcttt	120
atgtgtgaaa	ttgtgatgc	tattgcttta	tttghtaacca	ttataagctg	caataaacia	180
gttaacaaca	acaattgcat	tcatttttatg	tttcagggtc	agggggagggt	gtgggnagggt	240
tttctggaca	gttcacgctg	ncaatgaaat	gngacctatg	ntatccattg	tcttggga	297

<210> 1561

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1561

aattccgttg	ctgtcgggtg	gttcgtcaca	aggcatcgca	gaagggttat	gctatgaagc	60
ttcttagtaa	gtttgaaatg	ataaaaagat	cagattctgc	cttttttttg	gaagaaagag	120
atattatggc	ctttgccaat	agccccctggg	tggttcagct	tttttatgcc	tttcaagatg	180
ataggtatct	gtacatggta	atggagtaca	tgcttggtgg	agaccttgta	aaccttatga	240
gtaattatga	tgctgctgaa	aaatgggcca	aattttacac	tgctgaagtt	gctcttgctc	300

<210> 1562

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1562

aattccgttg	ctgtcgtgtg	cagccacaat	gccttctgat	gtgcttgagg	tgaccaagaa	60
gttcgatgag	gacccattc	ggattcttgt	caagaaggaa	gagttgacct	tgagggttat	120
ccgccagttc	tacatcaacg	tggaacgaga	gggtggggccc	agtgcaggag	gcgggcctgg	180
tagtgagttg	ttgggtatag	cccctgactg	atttttgtcc	cccaacctcc	aggagtggaa	240
gctggacaca	ctatgtgact	tgtatgaaac	cctgaccatc	acccaggcag	tcatcttcat	300

<210> 1563

<211> 300

<212> DNA

<213> Homo sapiens

<400> 1563

aattccgttg	ctgtcggggc	ctgtcctgaa	ccagatgaga	aactttggga	tctgtcggt	60
tactactatt	cagatggctc	ccttaagata	gtacctgggc	atgcccggtg	ccagcccgtt	120
ggggggcccc	cttcgccacc	tccaggcatc	ccaggccagc	ctctgccttc	tccaactcgg	180
cttcacctgg	gggggtgggcg	gaactcaaat	gccaatgggt	acgtgcgctt	acaactagga	240
ggggaggacc	ggggagggct	cgggcacccc	ctgcctgagc	tgcgggatga	actgagacgc	300

<210> 1564

<211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1564
 aattccgttg ctgtcgaaat ttttgaaggt cttggcccaa aagttgaact gccactgtat 60
 aaccagccat cagataccaa ggtgtaccat gagaacatca agacaaacca ggtgatgagg 120
 aaaaaactca ttttattttt taaaagaaga aatcatgcaa gaaaacaaag ggaacaaaaa 180
 atctgccagc gttatgatca gctcatggag gcatgggaga aaaaagtgga cagaatagaa 240
 aataatcctc ggaggaaaagc taaagaaaagc aaaaccaggg aatactatta aaaagcagtt 300

<210> 1565
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 1565
 aattccgttg ctgtcggatg ctcagagtgt agtggatatt tatgtaaact atgactgtga 60
 cttaaatgca gccaatatat ttgaaagact agtaaatgat ctatcaaaaa ttgctcaagg 120
 aaggggcagt caagaacttg gtatgagtaa tggttcaggaa ttgagcctga ggaaaaaagg 180
 tttagaatgc ttagtgtcga ttttgaagtg tatggttgaa tggagtaagg atcagtatgt 240
 gaatcccaac tcccagacaa ctcttggtca ggaaaaaacc tcagagcaag agatgagtga 300

<210> 1566
 <211> 1076
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(1076)
 <223> n = A,T,C or G.

<400> 1566
 cncangttnt ngaaaacccc ctttttgggn aaaaaactcc ccccnnggnt nctttttttt 60
 tggncagggg gaatacncca ancccgcaat ttccngnana ggttnnagggg ggnangggan 120
 ggcaggggaa nngagnccgg ggcttggcnt ncngaaaacc ngnanttttt tgtgggacgg 180
 gggggagggc ncngggggga cgggaataaa agcngggggn tgggggaaaa ggnaantnng 240
 ttttcaaagg ggaatccaaa aacggggcgn aatggttaga ngggnggacc ctnggnccct 300
 ggggggaagn gnnacnngaa tttgnaaagg ganggnnnaa atcnngggaa ngtcccnnga 360
 anaacgggga naagggggcc cangagggan gggctcccca agnggatttt ttaacggaca 420
 catggaacga agnaagggtt gtngggaggg ctcnaaaatg ngccngggaa nggggcnntc 480
 cangnggggn gggtanngta acannntcnc ggacaanatg ggnggccact nantngaaaa 540
 nnaatcttgt tgctattaaa aaataaagct gaccancg gngaagtngc tnaatgggga 600
 atgcaaannt nttgaggggn ccngggngac gnnactaaat tngngtcaaa ttnttgaana 660
 nacggnnaat gggngaantg gcaagtgan gnaacctant actcaangan ntnttattga 720
 tnggnnagan ggagnaagac ctggggaaga anccncttg gggcttatga aacggggaat 780
 aaaatagggg gnaangtggc natecntttc ttggggacan gggaacttgc tcagggggga 840
 aanggaacat ggaggcggg nggcgcaagg gncctgtcca atngngttct taatgnnanc 900
 cttgncttaa aanggagant aangngaana aagtgggggn nattgttggg naantntatt 960
 tggggggaat antgggcacg ggctnaataa ataanngcnc gnaggcccat aangggaggc 1020
 cncnangggg accccntgga nnattgggca gangnanctt tntnannnag gttaan 1076

<210> 1567
 <211> 745
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(745)

<223> n = A,T,C or G

<400> 1567

cttggcctttt	tgcaggatcc	catcgattcg	aattcggcac	gagcagagct	tagacatcca	60
aaactaatca	atgctgaggt	ggctaaatac	ctagcctttt	acatgtaaac	ctgtctgcaa	120
aattagcttt	tttaaaaaaa	aaaaaaattg	gggggggttaa	tttatcattc	agaaatcttg	180
cattttcaaa	aattcagtg	aagcgccagg	cgatttgtgt	ctaaggatac	gattttgaac	240
catatgggca	gtgtcaaaat	atgaaacaac	tgtttccaca	cttgcacctg	atcaagagca	300
gtgcttctcc	atttgttttg	cagagaaatg	tttttcattt	cccgtgtgtt	tccatttcct	360
tctgaaattc	tgattttatc	cattttttaa	ggctcctctt	tatctccttt	cttaaggcac	420
tgttgctatg	gcacttttct	ataacctttt	cattcctgtg	tacagtagct	taaaattgca	480
gtgattgagc	ataacctact	tgtttgnata	aattattgaa	atccatttgc	accctgtaag	540
aatggactta	aaagtactgc	tggacaggca	tgtgtgctca	aaggacattg	attgctcaaa	600
ttttaaggaa	atgggnccaa	tgaaccgtng	gttgtgggga	aggggaaaga	ngaaaccnga	660
gcttggtcan	aatgtggaaa	tnggatctgg	tggnaataaa	catgtttaaa	accaancnnc	720
n.nnnanaaaa	aaaagncctt	tttta				745

<210> 1568

<211> 674

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(674)

<223> n = A,T,C or G

<400> 1568

acgaggctgc	atctgnnnnn	aggatgccac	cctacgctgc	gctggctgcg	atggggacct	60
cttctgtgcc	cgctgcttcc	ggtgggtgca	ggtggaatgt	tctgtgcgag	agctcaaggg	120
ctgcctggat	ccctgacttg	tatccctttg	ttccacagag	agggccatga	tgcctttgag	180
cttaaagagc	nccagacatc	tgccactctt	cctccacgtg	caggccaaga	gcactgaaga	240
caccctggtc	ctcccgggaag	ggcagtccca	caggcagcgg	caccatttcc	tgggccccgc	300
cacaggacgt	ccgatgggag	agcttgtctg	gctctactga	tgatggatag	gcccccttcc	360
gagccttggt	gtccctggaa	tgaggaaaga	ttctccattc	gagagaatga	ctgggagggga	420
agaagtcggg	gcctctctat	tagaagccca	gactggaagt	gagaggcatg	atggggagag	480
accagactga	atctacgggt	gagccctgta	acctggctct	agggcacang	ccccctcctg	540
gcacttantg	ggtctaataa	agtatgttga	ttcattggga	aaaaaaancc	nntcntngnt	600
nnannnaana	nncctcccc	cccttaaaaa	antntntngg	gggggnntttt	ccctnancct	660
nnanttnaaa	aaan					674

<210> 1569

<211> 747

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(747)

<223> n = A,T,C or G

<400> 1569

gnnnnnnnnnn	nttnnnnnnn	annnnnnnnc	gantcgcacg	agctgcatct	gcaatgagga	60
tgccacccta	cgtgcgctg	gctgcgatgg	ggacctcttc	tgtgcccgt	gcttcgggtg	120
ggtgcagggtg	gaatgttctg	tgcgagagct	caagggctgc	ctggatccct	gacttgatc	180
cccttggtcc	acagagaggg	ccatgatgcc	tttgagctta	aagagcacca	gacatctgcc	240
tactctcttc	cacgtgcagg	ccaagagcac	tgaagacacc	ctggctctcc	cgggaaggga	300
gtcccacagg	cagcggcacc	catttctggg	ccccgccaca	ggacgtccga	tgggagagct	360
tgtctggctc	tactgatgat	ggataggccc	cttcctgagc	cttgggtgtcc	ctggaatgag	420
gaaagattct	ccattcgaga	gaatgactgg	gaggggaagaa	gtcngggccc	tcctattaga	480
agcccagact	ggaagtgaga	ggcatgatgg	ggaaaagacc	agactgaatc	tacgggtgag	540
ccctgtaacc	tggtcttagg	gcacagcccc	tccctgggca	cttantgggg	tctaataaag	600
tatgttgatc	attggganaa	anannncnn	atcnnncnn	cnnncnccct	ccccntnaaa	660
actttggggg	ccntttcttc	aacccccct	ttaaaanacn	ttgnngttnn	nnacccccctc	720
ttanntnnnn	nnnttnctct	ccnccn				747

<210> 1570

<211> 754

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(754)

<223> n = A,T,C or G

<400> 1570

gnggnnttn	nnnnnnnnn	ngnnnnnnng	ngngnnnnntt	ctaagtcttc	caacagnncn	60
nggggctcga	actcgtccca	cgcagccngg	cngtgngaag	tcggcacgag	gacngcacac	120
ntcacggggt	gcccctccaa	cncnccgat	gcgagaccen	gngccaatat	cggggggntc	180
aatgaccann	ngggctcagc	atgganaaac	agngccctgc	ctgaaggga	gnnagaatca	240
aaaggatctt	acccctngta	tcangagggn	ggctatgctc	cctccatncc	aagnngagcc	300
cnggactaga	aagcacgatg	ncgncnnaca	tctactgnna	ncgcctaaac	anaatccctn	360
ctccntgang	ggcnaaacgn	cctcatcccn	aatncaacan	tgggcnnгаа	ngactgaaaa	420
tcgcccgaac	tcancaccat	gatecgaccg	ggacantcag	accctntcct	gcncancna	480
ncgncnatcg	atccgaaaaag	tgnanntatn	agcacaacna	cgggganggc	atanggaccc	540
tgnagaaaag	aacnngcncn	nnctcncnng	gactgccatg	aaggntagcn	gcctaaaatc	600
nnnnccctgac	actcggagggn	ccgccacaa	nnngnnnaagn	nanggcnnга	cgnnacactg	660
gntgaaaaaa	annnnngnngn	nncnnngnaa	accenngcc	nnnnnacnnn	nnngngncgn	720
annccnngcc	cccnnnnacg	atnggncccc	nngc			754

<210> 1571

<211> 761

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(761)

<223> n = A,T,C or G

<400> 1571

ttaatanatc	cttgatttgg	cngatccatc	gattcggggc	aaaatcgaaa	tcaagttatc	60
cgatattcca	gaaggcaaga	acatggcttt	caaattggaga	ggcaaaccct	tgtttggtcg	120
tcatagaacc	cagaaggaaa	ttgagcagga	agctgcagtt	gaattatcac	agttgagggg	180
cccacagcat	gatctagatc	gagtaaagaa	acctatcang	ataaccctt	cagggtttctt	240
tactcgatct	agatcatgta	aagaaacctg	aatgggttat	cctgataggt	gtttgcactc	300

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atcttggctg tgtacccatt gcaaattgcag gagatttttg tggttattac tgcccttgcc 360
atgggtcaca ctatgatgca tctggcagga tcagattggg tcctgctcct ctcaaccttg 420
aagtccccac gtatgagttc accagtgcag atatggtgat tgttgggttaa gagacttggg 480
ctcaagtent aggccttctt cagtctttat gtcacctnag gagacttatt tgagangaac 540
cttctgtact tgaagttgat ttganatatg taagaattga tgatgtattt gcaancatta 600
atgtgaataa attgaattta atggntgaat actttcaggc attcacttaa taaagacact 660
ggttaaccac tgntatgctc aatcataccc nctaaaagggt acaaatgggc tttttaccta 720
atnctaattn aaaaattncc ngactggngg taaaaaaaaa a 761

```

<210> 1572

<211> 712

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(712)

<223> n = A,T,C or G

<400> 1572

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agnttcgaat tcngccgagg ttacatcaag agataaatag agtgaagcag aactagtggg 60
gcggaaccagc tcgccagcaa cagaaggggt ttagtgcggc ctggcagtggt acagggaggt 120
tggttagaac tattacctta ggtccgtgat aatatccctg aatccaactt ttcagaaaaga 180
aataggtaac atatttttca ccaggaagct tcacccagac actgaacaga atggtctcag 240
tgcaactaatg gaggtctcag taaaggggtt tggtagcaca aggaagagac attctgactt 300
ggaaatttgg agaaggcttc acaaattgaag gggcatttga aatgagcttt gaaggtgcaa 360
gagtattcca agttgagaag acaacctgag tgggtgttggg tgaacagtca ttctacctgg 420
ctgtagtgta gtatagtgtg gtgtagtgta ggaaacatca gaggagtggg gtgggatatg 480
agcctggaga gagctggcgg ccatggatca ttgaaagcct tgaatgtctg atggggaggt 540
tgactttatt ttgtaggcaa tggaaaccac catggttttt agttgagcag catgaaatta 600
agcctgtgct ttgcaaagat taatctanca ccaccagatt gaagccacac cccatttctg 660
gtataatcca gtaaatatat acactntttc tgtatttggtc cataaagggt tt 712

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<210> 1573

<211> 1259

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1259)

<223> n = A,T,C or G

<400> 1573

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ttcnacnnnc aantnnnnnn tcgtnttatn tancaangta ttngngnnan gntanntntc 60
atatgttnnaa aacnggnnnc gnttantant anacnctann nntannngana ngtnnccttn 120
tanatctgtg ncaaataat cgtnangtga actcannngnn nacacnacac atntnnntngt 180
anacncannn ccagantnct tgaactntct nncacaanca tnnngaaana aatacntagt 240
nntnccaatt tattgatcgn antnngcacg agaaaacacc ntncatggga cctcggttgg 300
nncaaataag gctatgtttt tgaaagtaac ctttccacaa gncaataaca gaagctatgg 360
tgaaatgtaa aaattcacaa ttctactttg tttcactgag tgcccaatca acgattcata 420
cagttgagat gaatgtgaca aaactctcta tagataaata tatattgcct aagtttatct 480
atatatatat gtctttgtgt gtaatatcca tacacagata tattgcaana ganattaaat 540
antcttnctt acataaacca ncnnntagat catntnnnca gggaatatga ganttacacn 600
cataggntcc tatgantgga ncatnnagac atatnataaa cnnttttanga aaagantang 660
ccatnnnatn tctcctgatn tcatnaactt nanncncan tnanttcnca ncanctnntt 720

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tncatctnct	tangntngcn	ctnannnnan	tnncaattcn	tagtatggac	tctnnttttn	780
cgancagann	gtntncttca	tnnecnaatn	tantatnanc	taacanaatn	tggmnataatn	840
ntgccatnta	nncccgnaan	acgcatatna	tnncgtagna	ccnacngtnt	cacntntnct	900
cncttatcta	ccacattgat	cgtnttagca	ncggtcgtta	cantntntca	tatacatcgn	960
anatctcgcn	atntcnacat	ataattanan	nnnantatnn	atgnnaangt	nctctnatat	1020
gangtgcaca	taattcatnc	gagtncacgn	tnatanatna	catanantnt	ctactgtttt	1080
annccgncat	gtcagnatat	gtttcgagnt	cnctnnntca	tcgannnacg	ncgtgcntnt	1140
ctcacgtctn	ttatcgntcn	ntatcatgcn	cnatttnntc	ntctgtantc	attntatgca	1200
tatanagtga	cgnacnnatc	tcnatcattt	tcatatnttt	tnctcgttan	canactncn	1259

<210> 1574

<211> 768

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)... (768)

<223> n = A,T,C or G

<400> 1574

gnnnnnnttt	agatcngctc	tttcttatnt	gcaggatccc	tcgattcgaa	ttcggcacga	60
ggtcccagga	aattcctccc	cttattcttc	cttgaagtgc	ccgagcatgt	agggcaagaa	120
ggaaggctga	agcgtctgct	ctaggaggaa	tttctccttc	aggggagcct	cagttttgcc	180
catttatcta	attgaatcag	ttttttaccc	aatcccccca	ttttgtagga	taatctccct	240
tatctaaagt	caactgatta	tggactttaa	tcacatctac	aaaacacttc	catggcgaca	300
gctagatgag	tgtttgaata	actgggactg	tagcccgtcc	aagttgacac	ataaaaactga	360
ccatcgggcc	gggggcggtg	gctcacgcct	gtaatcccaa	cactttggga	gcccaggcg	420
ggcggatcac	aaggtcagga	gttcgagacc	agcctggcca	acacggtgaa	accccgactc	480
tactaaaaat	acaaaaaatt	agcccgggtg	tggtggcaca	cacctgtagt	cccagctact	540
cgggaggctg	angcaggaga	atcgtttgaa	cctgggaggc	agaagttgca	gtgagccaag	600
atcacactat	tgcaactcca	ncctgggcga	cagggcaaga	actctgtctc	aaaaaaaatt	660
aaaactgacc	atctagtcct	tggcatctgg	gcacccttna	aaaaaagcct	tntagaacta	720
tagtgagtcg	tatttacgta	gatccagaca	tgataagatc	cattgggtg		768

<210> 1575

<211> 752

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)... (752)

<223> n = A,T,C or G

<400> 1575

tcagctctnt	ttatatatgc	aggatcccat	cgttgennnt	tctgcacgat	cgtatcanga	60
nattcctgcn	cttattcttc	cttgaagtgc	ccgagcatgt	agggcaagaa	aggaaggctg	120
aagcgtctgc	cctaggaggga	atttctcctt	caggggagcc	tcagttttgc	ccatttatct	180
aattgaatca	gttttttacc	caatcccccg	attttgtagg	gataatctcc	cttatctaaa	240
gtcaactgat	tatggacttt	aatcacatct	acaaaacact	tccatggcga	cagctagatg	300
agtgtttgaa	taactgggac	tgtagcccgt	ccaagttgac	acataaaaact	gaccatcggtg	360
ccgggggcgg	tggtcacgc	ctgtaatccc	aacactttgg	gagcccgagg	cgggcggatc	420
acaaggtcag	gagttcgaga	ccagcctggc	caacacgggtg	aaaccccgac	tctactaaaa	480
atacaaaaaa	ttagccgggt	gtggtggcac	acacctgtag	tcccagctac	tcgggaggct	540
gangcaggag	aatcgtttga	acctggggag	cagaggttgc	agtgagccaa	gatcacacta	600

ttgcacttca	ncctgggcca	cagggccaaga	ctctgtctca	aaaaaaaaatt	aaaaactgac	660
catctagtcc	tttgcattctg	ggcaccctna	aaaaaaaaagc	ctttagaact	atagtggatc	720
gtattacgta	gatccagact	tgataagatn	cn			752

<210> 1576
 <211> 767
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(767)
 <223> n = A,T,C or G

<400> 1576						
gaattcgnnn	ncagacaaga	aaaatgattc	aaaaaantnt	tgagccactt	ttggataagg	60
aatcaatttt	ttagaatcct	actttggatt	taccttggtc	tatagggaga	actgagggaa	120
ctgcacattc	atccagtacc	tcagatgtgg	atttcacggg	tgcttccagt	gcaaaagaaa	180
ctacctcgtc	tagcatttcc	aggcattatg	gattatctga	ctccagaaaa	agacgcgtac	240
aggaagatct	tggcctgctg	caataccaca	tttgcggaga	agaagaggtc	gtcttccaag	300
aagagcactc	cagactcaga	actcagaaat	tgtaaaagat	gatgaaggca	aagaagatta	360
tcagtttgat	gaactcaaca	cagagattct	gaataactta	ncacgatcag	gagttncaac	420
tcaatcatct	aaagaactcc	attaccaagt	tattttggtg	ctgcaggtag	aatagcatgt	480
ggcgaaaaat	cccagatttt	ggcacgtcgg	gtgacacttg	atggaaagggt	gcagtntctt	540
gtggaatggg	gaaaggacca	actgcatcct	gactgtaagg	acngaacatt	atgttccact	600
gcactctgat	tttctgtang	gtaccagttc	caaaccctta	aaggagccnn	ggcttntact	660
atttttnttt	taaaancaa	antnncnacc	ncncttttnc	ccntatntcc	nntcnncccc	720
ccnnnttccn	ntcccccttc	cctnctnctn	ctctncccc	acncccn		767

<210> 1577
 <211> 1000
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(1000)
 <223> n = A,T,C or G

<400> 1577						
annnctntnc	nnacatcngn	nnnntcnnct	nattcaaan	cttttcaatn	tcnctnacgn	60
ntcataatna	ttnnnnnnn	nnnnccnatn	ttnttnnate	annntntttt	natatnanca	120
tattntttaca	atnccttatt	anannaatnt	ntntntccnt	ncctttanaac	ancntcntcc	180
nannaanttc	nnntatttta	attncctcnn	accnacccta	ttncnattca	anatntancn	240
aattntntanc	tnnnnaatnt	actaaacnca	nacncatnac	cactantacc	tnnaatntac	300
atcannctat	ttntntantcc	cttatannct	ancntttctta	tcatantacn	ncatnttatt	360
ctactctttna	ncatatctca	netcatcncn	ncnaccntct	atatntatnt	tnnttcncat	420
aaaattcttta	ttcttcaanc	annaaaatca	catttnattn	cactatctca	ataaaaaantn	480
nnactccntc	naatcctctc	taacaatnat	tacattacat	atnaattaaa	ntcantctnc	540
tnattcnaaa	tcattctatc	ntcccactat	aantatntcn	tcttcantta	tantantntn	600
nnattenttc	cattttattan	tctcantaca	tactanatnt	anctatcntc	cnttccctaa	660
ctcncactn	cnnatanaat	anaannttca	aattcantaa	tacantcata	annctaaaaan	720
acaaataatn	taanttatan	tcccacacca	ctnanccnta	taantattcn	tnatattctt	780
aatcatnctn	ntattcttctn	acnttttctat	tnncannntt	caantnatct	antanatatt	840
tnntntant	cactcnnntan	ctttatnant	antntnttt	tananaacant	ataccntcta	900
acnatnatct	ttntctntact	tnaantctnc	atatntatca	tnnnntncatn	atnactattt	960

naaaatcnta tcacancttc tancacactn cncntnnnch

1000

<210> 1578

<211> 727

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(727)

<223> n = A,T,C or G

<400> 1578

anntcaatcg	nacgagactg	ttcagttctg	gcttgaaaat	gtgtgtgcca	tactgtgacc	60
cacgggcagc	ccctcctcct	ctactgtgtc	aggtggacca	gggtcacctc	tgttctgcgc	120
agctttgaga	ttctaggatt	ctacggccgg	cacgaatggc	atgggagggg	tctctgcacg	180
ggacggcata	acggcatgcc	atccttcagg	ctggcaggag	cctgcgcagg	tgtggcaaaa	240
tcttgaaaaca	gcctgtgtcc	tgccctggctt	ttcactttcc	tatttaatat	aagaaagcac	300
ttttttttct	gctttacctt	caaagtgggtt	gaaaatggcc	tcctctgtcc	tctcctctct	360
tttatacact	ctgtaaaatc	acaaagggtgc	ttcaacaccg	actgtcatgc	agtgcgtgtt	420
tgtgaattgg	cagtttctgt	ataaactctt	atztatataa	naaaaaaaaa	aannnnnnnn	480
nnnnnnnnnn	nnnnnnnann	ccccccccc	naaaaatntt	gggggggntt	tttccgnnan	540
ccnaactnn	aaaaaacctt	tgggnnnnnt	ggcncnccn	cccnnaaaaa	nnnnnnnnnn	600
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	660
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	720
nnnnnnnc						727

<210> 1579

<211> 1039

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1039)

<223> n = A,T,C or G

<400> 1579

ccagccanaa	nacngngana	aaaggncnga	cgnanacaga	nnncganann	gacgccngnn	60
gaanaagcan	anancacccc	cccaggcggt	ggaacccttc	anagnccgac	aaggcagacc	120
cacganccga	ccggcacgag	actgannaga	ncnggcncga	aaaagtgtgn	gccatactga	180
gacccacggg	cagccncncc	gccnctacag	ngncaggngg	accaggga	ccnccggacn	240
gcgcannacn	gagaannaag	gaancnangg	ccggcacgaa	gggcaaggga	gggannnctg	300
cacgggacgg	canaacngca	agccagcctn	caagcnggca	aganccagcc	aggnggcggc	360
aaaaacaaga	aacagcccga	ggcncagccc	ggcncncaac	caggcccnaa	ncaagaaaag	420
anaagcaccn	gngcnggacg	gcngnaccca	cacaacgggc	acgnaaaaag	ggcngcccgc	480
gnggacacng	cnnnncatng	gaaaccaccn	ccnggnaaaa	ancaccanaa	gggggcccng	540
anaaaacccg	aacnggganc	aagngccann	cagnncgggn	aaanaggang	naaaaacngg	600
ccagnnnngcn	accngggaaa	aaaaaaacgn	cncnncnnatn	gncgcnnncn	cnnncacggc	660
aananaaccan	agcgggacag	acanngancg	canacanang	cgancggaga	ananggaaaag	720
aaggagagaca	aaacagcgang	anngacgaan	anggnacacg	cnacacgcac	agcgangnng	780
nancaaaagn	annncncgca	nnannagnng	gnangcaaaa	naacgcgang	agannagana	840
gnggacgcac	nngcncacna	ganggcgnnc	ngacgnnncc	ccaaaacgac	nnacgnnnng	900
gagcaganaa	cgacgcacna	naaaggacgn	anganncann	nccngngaana	aaggngagaaa	960
nngnngnacn	anggcgacnc	caggagacaa	canangnnaa	agcnaagccc	cnagnacaaa	1020
agcaccaaaa	naancnccg					1039

<210> 1580
 <211> 759
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(759)
 <223> n = A,T,C or G

<400> 1580

gcnnntttgat	ntncatacan	ctaettgttc	tttttgcagg	atcccatcga	ttcgaattcg	60
gcacgagctg	ccttccaaca	aaatcgtcaa	gcgggcagag	gagttggtgg	ggcaggagtt	120
gccttattcg	ctgaccagtg	acaactgcga	gcacttcgtg	aaccatctgc	gctatggcgt	180
ctcccgcatg	gaccaggtgc	atcttcagcc	tgcatccctt	tcccaggagc	caggccactc	240
cctcagctgc	cagaggctgg	gtccctgctg	gggccagggt	gggatggaaa	tagacatgag	300
caagacaaaa	tagcagatat	gaaactgttg	tccttgaggg	tgtcacattt	ggggtgggga	360
caagggtggg	gagataggca	agtcggcaat	gtagaccagt	gcagtgggtt	gggggtgggc	420
cacagaaggg	agtcacagcc	tgaaacagcc	ctccacagcc	ctagaggccg	gctttatgat	480
tcccacttta	cagatgggga	aactgaggct	caccgtgctt	aagtaacttg	tccaaattca	540
ttaaactcct	agttattgag	tctctagtcc	atgtcancca	tggatgaagaa	cgggggagtt	600
aaacctacat	gtgttctctc	caaggggccc	gatcaaggaa	agcttttgta	gaaanangtc	660
acacccgagc	ccacctgatt	taattatatt	gattaatctt	gaaaaaaaaa	tgaacctgga	720
gattaccagg	gaaccggggg	ccaataanga	agtgtagct			759

<210> 1581
 <211> 980
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(980)
 <223> n = A,T,C or G

<400> 1581

nntnntnnnn	tnnnnntttn	tnnntnnnnn	nnnnntnnnn	nnnnntnnnn	nnnnnnnnnn	60
nntnnnnnnn	nnnnnnnnnn	ncangnnnnn	nnnnntnnnn	ntnncttntn	nnnnnnnnnn	120
nnnntnnntc	ccccccncc	cnnnnccccc	ccccnnctnt	tnnnnntnnnn	anganntacc	180
agtaggancc	aagttatnct	accacatgaa	tntnnntgct	gncttgtagg	agttggtggg	240
gcaggcagnt	gccttattnt	ntgaccngng	acanctgnna	ncacngggtn	annnnntnct	300
tctntggcgn	nnccccntgt	gaccaggtgc	atcttcagcc	tgcatccctt	tcccaggagc	360
caggccactc	cctcagctgc	cagaggctgg	gtccctgctg	gggccagggt	gggatggaaa	420
tagacatgag	caagacaaaa	tngcanatat	gaaactgttg	tccttgaggg	tgtcacattt	480
gggggtgggg	acaagggtgg	ggagataggc	aagtcggcaa	tgtataccat	tgagtgggtt	540
tgggggtggg	cccacanaag	nggagtcaca	gcctgaaaca	ccccctncac	agcccttaga	600
ggccgggctt	ttatgattcc	cactttttaca	ggatggggaa	actgaggctt	caccgtgctt	660
aaanttactt	gtnccaaatt	ccttttaaact	ccctagtnnt	tgagtctcnt	aagtcctatn	720
tcagcccatg	ggtgaaatag	ccnggggggg	aatttaaaac	cctacnttgt	gttcttttcc	780
caagggggccc	ccgantcaaa	nggaaaggct	tttggtatna	agaanggtca	ccacccccga	840
gccccagcct	tgattnttaa	atnatttttg	ttttaattct	tgaaaaaaaa	antgaactng	900
ggatattacc	agggaaanccn	gngggccaaa	tttaattggan	atgttttngc	cntaagggaa	960
ccanctgtgn	agnccnngcg					980

<210> 1582
 <211> 1336

<212> DNA
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <222> (1)...(1336)
 <223> n = A,T,C or G

<400> 1582

aggnnnngnnn	nnnnnnngnn	ngnnngnnnn	ngngnnngng	ngnnnnnggn	nnngngnnngn	60
ggngnggngn	nnnnnnnnnn	ngannnnngn	gnnnnnngnn	nnnnnggnnn	nnnnngnnngn	120
ngnnannnnna	gangnnnnngn	nnngnncnnna	ngangggngg	nnngnnnnnnn	nnnnnnnnnnn	180
nnnnnnnnnnn	gnnnngcngnt	angntgggaa	aaaanccccc	ntttttgggg	aagaaanann	240
ccccccnggn	ntnctttttt	tttgggccnn	gggggnaaan	cgccccaan	ccgggggaag	300
ggggcggggn	aanatgtgnc	gggggncnaa	ccggnaaggg	ggaangngna	nagnnnnngn	360
ggannnnnnng	nnnggnnagg	ggnnnnnnngn	ngnntttttt	ttntnnnaan	aggccnagnc	420
gangnnngggg	nnnnngnnng	cngnnnnnaag	ggggnggggg	ggggggagnt	angggggcan	480
gnnnagggggg	gncantancn	nanggggggn	gngagaacgn	naaacaacac	agggnncnng	540
aanggagngg	gnnnagnnng	nnngagnnac	gnggcgnngg	gngngnaang	ccnncngggg	600
gcngggngan	gngnananca	nggggnanag	nagangggag	gngggaaaag	gnggggcccg	660
aantgnngga	gnggcaaggg	angnnnganc	ggagggangg	gggcgagagg	angagccnat	720
cgagnggggg	naggggngac	aggaanggan	aagnangggg	gnaaggcgng	aancgaaggg	780
gggggnatga	ggaggagann	gngagngctg	gggggaaggg	ggnanngggg	gggggnngnn	840
gagnggggna	gngggngggg	ggangangat	gggagcnaa	cggtggacaa	aacggcggcg	900
caggnggggg	aggnanaaaa	gggccgggag	cggngcngng	ggggaggngc	ggnggtgtan	960
gaggcaggna	aattganngg	gagacnnggn	gngcgnngga	gggnngaana	gngnnngaana	1020
naagacggaa	cnaagtggag	gaggggggnan	nnggcgcagg	agagngaggg	ngtanggnag	1080
anananangg	nnaggacngg	ngncgngggg	nngagtgagn	ggcgcgangg	agngngaggn	1140
gagcgnggan	ngagggngng	nacgggggatg	gggagngcng	ggggngnnnc	gcgggggcgtg	1200
gggacnccng	gggggggggg	gggnnaaggn	ancnnggggg	ngnannagan	gangggngnn	1260
cgntgcnggn	gngggggggg	gagagnaang	agnacngggg	gggggnnacg	nnggggngna	1320
gngcgagnnn	gcgcgg					1336

<210> 1583
 <211> 1328
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <222> (1)...(1328)
 <223> n = A,T,C or G

<400> 1583

cttatgnnag	atcttatcnc	nttaactnga	catnnaanan	gnagtnnnntc	nctagccnat	60
taacacattc	cgatntntat	taaccnccnn	ccncccccnc	ccctcnnnnt	tccaaagnta	120
aatcgnggga	gaaaatctcn	ttcggncccc	nntgnanttt	gntagagana	atgtntnttg	180
ctatggttnn	gngggnnngn	ctatcttttt	actnggggna	ttttatnntn	ntaacacatc	240
ntgaangct	atcttacctt	actnnanatn	atcacagnaa	atcatgacca	cttcnmatga	300
cnnnaaacat	agannncacn	acccttctnn	ncgagtannn	ctcctagnac	ttattntata	360
ngtagnatna	nnaaattcnn	aatnatctcg	nacannnctt	ttannttann	tagnatnaga	420
ctnattantt	ancgattnat	ntatactata	nnctanctnn	ncacntagca	nacttgnnan	480
acaggcgagta	cctagnctna	ttcngctcag	cacanctnta	atccaccagg	aaanaannat	540
ataanncnan	cntgtaatat	cntttttatc	nctnnncact	ggnatcannc	nncatntgat	600
tcatcatacg	aatntatatt	tcnntcttng	gcantnatatn	nattcatnat	annncgctct	660
ncnanacacc	acatanataa	ntatagngct	atatnatntaa	attcncaatc	tgggnacnnac	720

naanttaana	ancanctanc	tacacacaca	atcanaattc	acataatgac	ntantntcnt	780
nacanatana	tancatant	agaaagnntt	attctgnnta	ncccnncctt	aatntngcnn	840
tctcgntnt	gnatnncgat	aanannaacn	nmatnttatn	tntacanaaa	atagnacata	900
tggcnctaca	tctacgtatg	cgcatacacn	gncttatgaa	nntncncacg	tgnacgagac	960
ntactancac	angtaanann	tcttcncnan	tnagngctan	tntcacatna	cacnntctag	1020
anntaactna	ttncacagan	catacntctt	atcannatnt	taatataacg	nacnncncat	1080
tcatcacatc	ananctaaca	nagantgtga	natatanact	anctaagttn	attaaaacat	1140
agttacatnt	nmatatnant	ctnancntat	atcgncctct	atnttanctt	cnctcnatnt	1200
gcaantgtat	caatactcat	nactanagna	ttctntctct	atattttaat	tttctntntn	1260
tatannttac	ntantcntca	caccctatac	taagatttna	tnanantctn	atctanccac	1320
tanatnnn						1328

<210> 1584

<211> 740

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(740)

<223> n = A,T,C or G

<400> 1584

caccccatcg	tgtacttaac	tgtgcggtgac	gtgtgctttt	ggtangcatc	actgtgcccc	60
agtatttcat	gtncattgta	aagaggaaaa	atacagattt	ctctataatg	tnaccactta	120
tttctaattg	ccacttttca	tcttggtgaa	atgccatgtt	ctgattcant	cttctgaatt	180
tgaacattat	tcaggttatt	tccaattgct	gggaatatcc	ttactgctaa	aataaancct	240
tagcattgga	attgctaggn	caaagattat	gcatgctttt	taagggtctt	tgaaatgtat	300
tgccagtctg	tggcctgcca	ccctccctga	acatgcctgg	tcttgcttaa	aatgtattgc	360
cagatantcc	ttgggaagtt	catgttgtct	ttaacaatgt	gaaatagtac	nmctattcac	420
nttccttttg	tctgacaatt	nngataagtn	aataattgtt	tcccaccatt	ntgtagtann	480
ggtttttaac	ntggaaatcc	naatcaatac	ctgggctgaa	gcatcagtgn	ttccacccta	540
cctanccaaa	aaaaggattc	nagggtattc	cnmcaatcag	tacctgccct	aatatattan	600
agcccttacn	gganatnaat	canaanangc	ttttaaaaaac	aaanaanccc	nggacnnggc	660
cnttttacnn	aaatgcccc	ngcccntntn	aaaaagnnac	tnngntttta	angnnatnga	720
aaatggcctt	tgggcncgtt					740

<210> 1585

<211> 1003

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1003)

<223> n = A,T,C or G

<400> 1585

tttttttgaa	acctttnnnn	ntngaatacc	nanacaaact	ctgnntgtct	nngcgggac	60
ccntcaagtc	cnatncggcn	cgagcncanc	ttntnnnann	tgtcgcgtct	gagcccatga	120
gncacgacnn	cnttcnccgg	cgcctgnatt	gncatntctc	ccaaatacgt	ggctnnntccn	180
cantrnga	nategnnatt	tttagtgcca	gannattggc	nataatgtnc	ncnttgagan	240
aaannctnct	gncatngaa	accatcttna	tacttgncgt	nncnaaatnc	attgtgannt	300
ntgaagggga	acgggcncntn	nnaaagngat	gaatttcnna	taacttnacn	ggttnatnan	360
gaatgatttt	gncacacanc	ggaaaatcac	cccactnnnt	tgnttcaaga	ntggggccct	420
aacggggagg	gtantagagg	caaaccntct	ttgcgggctn	ttntatttcc	ttntttcaaa	480

caccaatntt	tgntgaanaa	taacagtgtt	ttnaattnaa	ttaccaccgc	ntncantgng	540
attntttgnc	ccattncaaa	ggntgggtca	attccccctaa	aanaattggg	aaaanantaa	600
tttnccattt	cntttttccn	ttnaaangaa	accntnccnt	gnanttaaaa	aaanattctn	660
tntnntccn	caaatttttt	nnttttnaaa	ccnctnancg	gctaaccagg	nccgnttttc	720
ggtgnccctn	tttattgttg	gcanntaaa	nccccntttt	aaaaaaattg	gccttnaaaa	780
aatccttacc	atttttnnna	ancctaaaaa	nggattaaac	tttcaaance	gtnaantaaa	840
tttnnggggg	ttcatntnnc	tttgaactcc	cctgcntcc	cntanaattn	gaattgncac	900
attggtngna	nccaaantat	ggatntttca	agannaanac	tgggcttnca	aatgntcttt	960
ttcancnaat	nanntnatat	tgccattttg	nggccccccc	cnt		1003

<210> 1586

<211> 740

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(740)

<223> n = A,T,C or G

<400> 1586

actttcnaat	cgcacgagag	acantctcct	gcacacgncc	ctgtgggaaa	agccagcttc	60
tgtttgact	ggtcttnaca	actcgttacc	tggatctttt	tacttnnttt	atttcattgt	120
ataacacatc	tatgaagggt	atctaccttg	cctgctccta	tgccacagtg	tacctgatct	180
acctgaaatt	taaggcaacc	tacgatggaa	atcatgatac	cttccgagtg	gagtttctgg	240
tggtccctgt	gggaggcctc	tcatttttag	ttaatcacga	tttctctcct	cttgagatcc	300
tctggacctt	ctccatctac	ctggagtccg	tggctatcct	tccgcagctg	tttatgatca	360
gcaagactgg	ggaggccgag	accatcacca	cccactacct	gttcttctctg	ggcctctatc	420
gtgctttgna	atcttgtaaa	ctggatctgg	cgcttctact	tttgaggggc	ttctttgacc	480
tcatttgctt	ggtggtggcc	cggcgtagtc	canaccatct	tatactgnga	cttttttcta	540
cttgnaacatt	acaaaaagta	cctcaaggga	aagaaaagctc	aatttgccaa	ccataagtgc	600
ccaaaaccca	tcacccacat	ctgttccttn	naggggtgctt	cggacagaat	tcttacacag	660
caaaaggcat	aaagangctt	ganccggaaa	ataanaaact	taactctttt	gttccnaaaa	720
gncatcaang	gctcctttan					740

<210> 1587

<211> 651

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(651)

<223> n = A,T,C or G

<400> 1587

ntgacattgt	gattgcaaaa	agcccaagtg	atccacantc	aaangtntga	ctngnanann	60
aactgggnat	gagncaatga	acttnttgaa	gacatcactc	ctctaataaa	tgtggatgaa	120
aatgtggcag	aattgggttg	tatactcaaa	gaacctcact	tccagtcact	gttggaggcc	180
catgatattg	tggcatcaaa	gtgttatgat	tcacctccat	caagcccaga	aatgaataat	240
tcttctatca	ataatcagtt	attaccagta	gatgccattc	gtattcttgg	tattcacaaa	300
agagctgggg	aaccactggg	tgtgacattt	aggggtgaaa	ataatgatct	ggtaattgcc	360
cgaatcctcc	atgggggaat	gatagatcga	caaggtctac	ttcatgtggg	agatataatt	420
aaagaagtca	atggccatga	ggttggaat	aatccaaagg	aattacaaga	attactgaaa	480
aatattagtg	gaagtgtcac	cctaaaaatc	ttaccaagtt	atagagatac	cattactcct	540
caacaggat	ttgtgaagtg	tcatttttga	ttataatcca	tcaatgacaa	cctaatacct	600

tgcaaagaag caggattgaa gtttccaagg agagattcctt cagaatgtaa a

651

<210> 1588

<211> 820

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (820)

<223> n = A,T,C or G

<400> 1588

ccaaactaga	agctgtcagt	gacaataact	tggaattagt	caatgaaatt	cttgaagaca	60
tcactcctct	aataaatgtg	gatgaaaatg	tggcagaatt	ggttggtata	ctcaaagaac	120
ctcacttcca	gtcactgttg	gaggcccatg	atattgtggc	atcaaagtgt	tatgattcac	180
ctccatcaag	cccagaaatg	aataattctt	ctatcaataa	tcagttatta	ccagtagatg	240
ccattcgtat	tcttgggtatt	cacaaaagag	ctggggaacc	actgggtgtg	acatttaggg	300
ttgaaaataa	tgatctggta	attgcccga	tcctccatgg	gggaatgata	gacgcacaag	360
gtctacttca	tgtgggagat	ataattaaag	aagtcaatgg	ccatgagggt	ggaaataatc	420
caaaggaatt	acaagaatta	ctgaaaaata	ttagtggaag	tgtcaccta	aaaatcttac	480
caagttatag	agatccatta	ctcctcacag	gtatttgtga	agtgtcattt	tgattatnat	540
ccatacaatg	gccaccta	ccttgcaaag	aagcaggatt	gnagttttnc	aaaaggagag	600
atcttcanat	tgtaaaatag	agaagatncc	aaatggngng	caggcttncc	catgttaaaa	660
aaaggangga	aaccnctgg	cttcntnca	agccaattnc	tgggaanaaa	aaaaaaangg	720
cttttgttaa	aanaaactgg	ggacaattca	agganccttt	ttgggggact	ntaagttgcc	780
aaaaaaaaaa	aaaaaaaaac	tcggnccctt	taaactntng			820

<210> 1589

<211> 690

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (690)

<223> n = A,T,C or G

<400> 1589

gtatcaatcg	cngtaacctg	ttcccttgat	cntgagtttt	agctcagata	accagggtatt	60
ttgaagacgt	gattgtcctt	ggccctgccc	catcccttcc	ctttaaagtt	ttaaattttt	120
ttcatgtctt	ttctttggcc	agaattttct	tatcccttgc	atgccttcct	cggttaccat	180
aaatctgcat	tatcctagga	aagatgaagc	ccacagattg	tacgatttca	gagtacttcc	240
tgggcccctg	tgtgatccga	cagaggcctg	gtcatcaagt	tggacttccc	tatgtgaaac	300
cataaactaa	cctgaggaag	atactgaggg	gagaggggct	gtgtaacggt	gactgcctct	360
aggccagcct	tctgccaggc	agagaacagg	aagctggcat	gcagggtgtc	tggcactggg	420
aaaatgacac	catgtttgta	agtgcattgt	cctggctttt	ggtgggcccgt	gcaggagttc	480
ctgcctgaat	tatagtcttt	ccatctcata	tcttcatgtg	gagccctcaa	gctttaaaca	540
aagtcttttt	atctccgggt	ttcaagggtg	ggctcccatt	atctttgaga	acctcataat	600
gctgcttttc	ctttaaattt	ngttttacac	ttgnccgctn	ggtcagcaca	agagctactt	660
cacattttnt	ggncccccac	ntcggnntta				690

<210> 1590

<211> 727

<212> DNA

<213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(727)
 <223> n = A,T,C or G

<400> 1590

acnttcaatc	ggcacgaggc	tngttctggn	gaaagctcan	taagtatgga	ttttattcct	60
caactagtag	gataccaata	ctggtattga	aacttgggga	aaataactgg	agataccagt	120
gcagctatct	aaagctgtag	caagggctgc	aatcttgccg	agattttaaa	gagaagtttt	180
aaagtttcta	atactgatgc	ctcttttttg	taaatacaag	ttttataaat	cctgccctgg	240
gatectgatt	ccccattaat	caagatttgt	cagacttcac	cttctataat	tagaaaacac	300
agttataaga	acagtcaatt	ttttaaattt	tccaaattaa	aaaattgcac	catgattttg	360
aacaagcact	tccaattaca	ttacccatct	tgtatgccat	agggtgggag	ataattgtca	420
cagccttttag	gaatgtagtt	ttccgggatt	tattgaaact	ttgaaccttt	tggcctacta	480
agttcattcc	taggaaaactg	cctaattggga	atgatctgac	aagtgtacac	aagcaaagtc	540
attgcacctt	tggctctttaa	tacttaaaac	taacccaaat	gcccttgcag	taagggactg	600
gtttaataaa	tgggtancctt	tatgcccaatt	tgttctaaag	tattcgttta	agagangtgg	660
aggaatctct	tggattatta	gggcaagaat	tctaacttng	gtaaaaaaaa	agtgggtgcaa	720
gcattttt						727

<210> 1591
 <211> 460
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(460)
 <223> n = A,T,C or G

<400> 1591

ttcnaccagc	tcttgttctt	tttgcaggat	ccctcgattc	gaattcggca	cgaggcttgt	60
tctggggaaa	gctcatataa	gtatggattt	tattcctcaa	ctagtaggat	accaatactg	120
gtattgaaac	ttggggaaaa	taactggaga	taccagtgc	gctattttaa	gctgtagcaa	180
gggctgcaat	cttgcgagga	ttttaaagag	aagtttttaa	gtttctaata	ctgatgcctc	240
tttttggtaa	atacaagttt	tataaatcct	gccctgggat	cctgattccc	cattaatcaa	300
gatttgtcag	acttcacctt	ctataattag	aaaacacagt	tataagaaca	gtcaattttt	360
taaattttcc	aaattaaaaa	attgcaccat	gattttgaac	aagcacttcc	aattacatta	420
cccattctgt	atgccatagg	tgggagtata	attgtcacag			460

<210> 1592
 <211> 516
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(516)
 <223> n = A,T,C or G

<400> 1592

ttcatttann	ctnttttttt	gcaggatccc	tcgattcggga	agagcttctg	caggggctga	60
gcagacccca	gggcctctta	gccaatcccc	gggcctgggtg	aagcaggcga	ancatatggt	120
cggaggccng	caactacctg	nacttgccgn	caagagtggg	caatcttttn	tgtctctcgg	180
gaangnccca	annctcctcc	cccaanttga	nanaaaaagn	aagttntggt	naaccancn	240
taagccataa	gttcccctgg	ggcccctggg	ganaaaagnct	tcaatcacng	ggccaagggc	300

ttctggnccc	cattnattgn	cttggacaag	aactctgggt	cacaagtctt	gctnggtctt	360
gctggggaan	cccnaccnga	cattgggccc	cagacttgct	ggtcttnttg	ggaagaaggg	420
caagacccca	aaccaagatc	caaaatacac	ttncagctct	taaccaaggc	ttncctttcaa	480
gtcacaagtt	gttgccngaa	atcagtaaca	agaagt			516

<210> 1593

<211> 1207

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1207)

<223> n = A,T,C or G

<400> 1593

agattntcga	atcgcacgac	ttgnccctgt	ggggctcttac	ncgatgtgtc	tctgagtagt	60
aaaggcttag	ccttggtcct	gttatgttgc	aagaaggagg	ggaagggttcn	gngatttctt	120
ctgatttatt	ctnnggntcc	atgtganccg	gccntcacgt	gnanccnnncn	gcacgnacg	180
ctcctnnccn	atccacatac	nccagntana	cntnctnnnn	anccaccacn	cccantgcn	240
antccanntc	neccaacgcn	cangcntnag	cctntanncc	ccccaccctc	ncnnagncct	300
actacaccnc	cattnnancc	nnccccnaan	atcacccctt	ttcctaccat	cgtcnnanca	360
cnneccatct	acantcnnncn	annaccgnnt	nnnccnccag	tnatcanttc	actentaccc	420
ncacgcctnc	anngnncnaa	ctctnccctg	ccaatcatgt	tctanngcan	nnncnncctc	480
ntancctact	catcntatta	aacttntctc	tttnctntnt	gcnacatnan	actcctcttn	540
ngnctnnctc	atnatccgcn	ctacactcaa	cattctgncn	nnatnctatn	ngnacnttaa	600
aataccntca	cataatcntg	acgcacatcn	ntcnctacna	atcnattgtc	atnntnatct	660
ccnccctctnt	accatantct	ctcntaacag	tnatntctca	ttctcaaact	tcgccatnnc	720
ccacnantnt	ctcttaacga	cacnntccta	anccctatnc	ataccattna	atnnccctgcc	780
ttgctatgan	anncnncgan	cacntacaca	nnntgtancn	aactanatac	aantatcgct	840
ccctctcact	aacnntnnnn	cntaatanaa	cataagccnn	nctancgnnt	cntnntnaca	900
accacatnta	ctcttaacga	ctgnnttctc	tctttngggn	tcctctttcg	caacgnctca	960
nnantccaca	cgntcccttac	gcccatcctc	ctnnccctac	agtatgtaat	cccntanatt	1020
nnntncanata	ttcatcncca	ngcccgtctac	tgataccttc	nctgctacca	tcnctcccc	1080
tatanttncg	tctcgnacca	atctacgtnt	acacngttnc	ananccaata	ancnacctca	1140
tgctnecgnac	atacganaca	natgcncatn	atccacattn	ccctnccnca	nacatntntc	1200
taanccc						1207

<210> 1594

<211> 466

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(466)

<223> n = A,T,C or G

<400> 1594

tntacgttca	agctcttgct	cttttttgag	gatcccatcg	attcgatgcg	cttattaggt	60
attttatctt	tcaaaaatat	atgtncccaa	ctgtgtttgt	ttgtttcctg	actgtgaaca	120
ctgaagagga	ctagatcaaa	aatgaccaat	tgagtagcaa	ttgaacattt	acagtgcgtg	180
gtgcagtga	cttctgtagc	acccaaattg	tgggggtggg	gaaaaacat	tccaccttaa	240
aagaaaacca	agcctttctg	gcaaaattgc	tgattctagg	ttttggccaa	gaaatgtaca	300
tgctgactgg	aacattgcat	aacagtttag	aaggaggctg	ttaaagacta	tttaggggtca	360
tttcagaaa	actggagaaa	tgactgtaga	attcccactg	gccagagat	cnggtagaaa	420

cctgtgaagt gtgttttaaat tcttgagttc ataatgggta ttttaa

466

<210> 1595
 <211> 723
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <222> (1)...(723)
 <223> n = A,T,C or G

<400> 1595
 aggtttttcga ttcgcacgat atntntcaca tgtaanaaan atatgtaccc aactgtgttt 60
 gnttggtttcc tgactgngaa cactgaagag gactagatca aaaatgacca attgagtagc 120
 aattgaacat ttacagtgtc gtgtgcagtg aacttctgta gcacccaaat tgtgggtgtg 180
 ggaaaaacca ttccacctta aaagaaaacca agcctttctg gcaaaattgc tgattctagg 240
 ttttgggcaa gaaatgtaca tgctgagctg gaacattgtc ataacagtta gtaaggaggc 300
 tgtaaagac tatttagggt catttcagaa agactggaga aatgactgta gaattcccac 360
 tggccagaga tcggtagaaa cctgtgaagt gtgttttaaat tcttgagttc ataatgggtat 420
 tttaaaaagg aattgggttac tcttagatta gagcatgata ggaacaaaatt tattaccttg 480
 aacattggta aatacaagaa agaacaattt atcctgcttt tcctatgtga gtgtacctct 540
 ggctaacaaa atagtagata tgggagagct atttcaattg ataaatgaaa aaagaaatgg 600
 cagaattgca ataccaccat ttataaactt ttggtgaacg aatgggtcta ngtgggtgagc 660
 gtcgatngct actacatccc cnnnnaaaaa annnntnnn nnnntnnn anangaannn 720
 nct 723

<210> 1596
 <211> 464
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <222> (1)...(464)
 <223> n = A,T,C or G

<400> 1596
 cttntttaga tacagctact tgttcttttt gcaggatccc atcgattcga attcggcacg 60
 aggattcatc ttcttgttct ttaaaagtca aaaggctttt tgacctttta ataaactctta 120
 catctgggtca tcaactgttg aatgttctac taaattttca gagtggaaaa gtttttaggct 180
 taaaactgac tggtaaaaaat agaataattt tttgtattga tttttcagta tagctgtaca 240
 gccagttatc cttcgttaag tgtttcggtt ttaaaactgc tcacatttgt aaatattgag 300
 cagctttatt gtcagaacaa gaatcccttg gtttcccaat ccccaacttt taacattgta 360
 attaaaacat ctgtataacc tattttattc tctgccaaac aatttttatga ctgctgtttt 420
 tactctttgt gatgaaaaat ggatggagaa gataagggtc tttg 464

<210> 1597
 <211> 709
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <222> (1)...(709)
 <223> n = A,T,C or G

<400> 1597

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atgtngacca nttcngcacg aggattaatc ntcttgttct ttaaaagtca aaaggetttt      60
tgacctttta ataaactetta catctgggtca tcaactgtga aatgttctac taaattttca      120
gagtggaaaa gttttaggct taaaactgac tggtaaaaaat agaataatttc tttgtattga      180
tttttcagta tagctgtaca gccagttatc cttcgtttaag tgtttcggtta ttaaaactgc      240
tcacatttgt aaatattgag cagctttatt gtcagaacaa gaatcccttg gtttcccaat      300
ccccaacttt taacattgta attaaacatc ctgtataacc tattttattc tctgccaaac      360
aattttatga ctgctgtttt tactctttgt gatgaaaatg ggatggagaa gataagggtc      420
tttgccctat ggtgggtattt attatcatcc tccatcaatg cagattgggt aaatagagaa      480
aaattcangc cgggtgtggt tgtgcacatc tgtagtccca gctgcttggg angctgancg      540
angagaatcg cttgaaccca ggagtcagaa gttgcagtga gctganattg cccactgcac      600
tccagctgag cacanggtga aactctgctc aaaaaaaaaa aaaaaccctt naaactatgg      660
ggngcntttc cgaaaccnaa ctganaaaaa ctttgtgagt tgcncctt      709

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<210> 1598

<211> 1372

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1372)

<223> n = A,T,C or G

<400> 1598

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nacntantan nttnatantn nttctntnat ntecnntnen tnentetent tgnntnnggt      60
nnntnntntt tnttcngttt ncccccccc nnntnecccc tttntntttt ttcttttgnn      120
nccgtagacc gngtgaaatg attngctgng ccncccggtta tgttattttt ntatatgntt      180
ncnatncatn antttttcta tgngnncnca cttttctacc ntntnggggg tgttttttan      240
ctccattann nattctattt tnnnaactct tgattantat nangtctttt tcttttnnec      300
catctntntt cttnnncact gtnnanctnt tnntccctnn ttnttatctt nnntttctnt      360
ttacntaaat tctctcnntc nttatttntt tcttcactctn tntngenttc catttntttt      420
ttttntcctt tncnnnctnn nnttctttta ctcttncctt ctntctntnc nectnctnca      480
nntcattttt tcttanctat acgcgttatt aagnnnncta ctncgtntctn natatnttnn      540
tactatcnnn ntnccttttg nttnnagtnta nteccntnng tatttctent nngtctatn      600
tgctntatta tttntntctt gtntntcttc tactcncnat atcatnnacn atacntatat      660
atatatacan cttgtttcta tntntancta cataatgttc ntttantctt nttnttctn      720
ctagtatgtt ncttnattat ctanttctnt tttatntatn ctatcttctn atnatntnt      780
catacctnta ttcgtatata nagnaactcn acatgntang tgtecnttnc natctcannn      840
nttantcttt ncattcttnn gttatctgnc gtnttncntn tnacntgata ntcatatnnc      900
cntnanenta tatgatgaat cacgntgtct ttntcaagct nnnntctctc ttctcttctn      960
tnnataaaact tntgactcng tagtttactt gatcttttctn atntctnaac atcactccat      1020
tcncttnctt cmgnacnnc tctnttctnt actattcttn tctactctc tntctnttn      1080
gttanttaacn cctccgatnc tnttanttct cacnntncnn attttctaata gtantntntg      1140
gtatatttct gntatctcta canccgatcn nanctacgtt cgtatagtat nctaatannt      1200
gatntnatct antgtntttt tatectnct tentantnct ntttacatna ctctntttnt      1260
ctgttttctt tatctnctat ngtnaanttt cctatgngta tnatnctgtt nctctctann      1320
atttcatctt ctatctntan ntctcattgt atgcttcttt ngcttcttctn cn      1372

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<210> 1599

<211> 464

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(464)

<223> n = A,T,C or G

<400> 1599

tngatncctt	cgatcagctc	ttgttctttt	tgcaggatcc	ctcgatncgg	cctatcttag	60
agaatcatct	gctcannctt	tattcctgca	gaatacaaat	gtcacattct	aacctgttca	120
gagattgtct	tcaanataaa	antgtgattc	ctacatggna	tgnaaaacaa	nctacactnn	180
tnnggcaaaa	gcattattag	ggntngattc	cataatgatt	gagtnctntt	nnnnagtata	240
ntcatgcanc	tgaacaaaat	gaagctcatt	ccactgcntn	gaanaatnnc	acaaatgtga	300
tgctnaanana	aggaagccac	gtgcanacac	tnactatata	attntatgta	catnaagttc	360
agnatccgga	tagttaccnn	tgnaaaggan	gtaactnnan	gagtntgagg	aggggnttct	420
ggtatctggt	taatgnactt	ngtaccantt	acccaanagt	gnnt		464

<210> 1600

<211> 922

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(922)

<223> n = A,T,C or G

<400> 1600

nnncnntacn	cntnnnnnnn	nnnnnnnnnn	nnntntntnn	nnnnntnnnt	ntntntnnnn	60
nnntgnnttn	tnnnnnnatn	ggtnnnnant	tntntntntn	nattacntnn	nnnnncnntn	120
ccccccacgn	nnnnnnnncc	cccntcnntn	ttntntntnn	ttnaatntcg	antccgcacg	180
gaggatatac	tacttatggg	acantgaggg	tgcaanggnn	tcctannatt	catgnggatg	240
ntccnnggtg	tgaggaggga	atctgcaatt	gnttgctnna	cagagcgctg	gcaacttctg	300
acaggctggt	tctgggggat	gggctgcctc	gggttggtgc	tgttacaagg	aaagaaaaga	360
gttccccctg	ccaccgcctc	ccagccactg	ggctacctcc	tggcaggaaa	tttgcaaaact	420
gagtttaaca	agttaggatc	agcagagggg	agaggagggc	cctggcagat	gtgggggtcta	480
gaagaggaca	ggagttatca	gggcctccgg	ccattgtgct	gggcctttgc	ctgtacaatt	540
gtttctcaag	cagttgtgtc	cctgtggcct	tggtgcgcct	gtgtgcactt	tctccctcca	600
ccttgaggca	tgggctaaca	cccgagggaa	aaggaaaaga	cagagtcaag	acaggggaca	660
atgaaacctt	tgaagtgcct	antctatgaa	agaggcccg	gggtgggact	aagaatccan	720
tgccgcncct	aagagtttga	ccaaccaccc	ccctacagca	actnttgngg	atccccccat	780
cacctgaggg	aggaaccaac	ctacccattc	caaaaggggt	ccaagggata	agcccaaacc	840
tggggaacan	aagcgaaang	gcctccaaag	gggggtccat	tnggccccag	gaagggaanc	900
ccttgggaaa	aaactcccan	nt				922

<210> 1601

<211> 864

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(864)

<223> n = A,T,C or G

<400> 1601

ttgaattcca	tacaagctac	ttgttctttt	tgcaggatcc	ctcgattcga	attcggcacg	60
aggaggagg	atccccctgg	ttgtgcatat	ggcgggaagg	ggtattccag	gagtgaggga	120
tgtcagcagg	gtgggaatgg	gatcagtgag	gggaggagga	gcagaggagt	cagaaggatc	180
taagggtagg	gctgaaggtg	ggaaaacacc	tgtagggtcg	tttaggacac	ggaaagggcc	240

ttgactttgc	tgccaacnaa	gatgtgaagc	tccaggcaag	ggtaacaatc	taacttacat	300
tttatgaggg	tcctgtggca	gctgtgggta	gaacagactt	taaggggtgct	gaggtggatc	360
acggagacct	gtggccaggc	tcttgtgtgg	taaatctggg	ttgggagaat	ggtggagaac	420
tggatgcang	taggancact	ggaagtggca	agaaatgact	ggattcttga	atattttgtt	480
caaaagttag	anccgaaccc	cggttttgtt	tgatggacct	tgaattgttg	gggtgttgat	540
taagaaaaga	agaaggangt	tcaaaggacc	aattttcttg	naaggnatct	ttaanntccn	600
ggaagccaan	ccttggnaaa	accaaggaaa	ggncttgcct	tgtnmaaat	tggnaaaaaa	660
tngggaaatt	gggaaaaccc	ttggggtttt	tttggggttt	gggggggnat	tttttcaaac	720
ccccatttgg	ggatttnccc	catttccant	tttttggang	ggnnngtttt	ttcnatttca	780
aanccaattt	ccccttaaan	tgggggtngg	naattaattt	ggggaacctt	ggggggccccc	840
aaatttttng	ggaacctttt	tacc				864

<210> 1602

<211> 619

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(619)

<223> n = A,T,C or G

<400> 1602

ttgattcnat	acaactactt	gttctttttg	caggatccct	cgattcgaat	tccggcacgag	60
aagagacagc	ctctctcttc	tgtctcagaa	gctctgtgtt	tgggaaactt	tgagcccatg	120
gagtagcagg	gtctgcatgg	tggagtacca	ggtttccctg	gcaatccagg	tctcctntga	180
ggaagcattc	tgacttccca	ctgaccacgg	aaggcatgtc	agcttctntg	ctcggncatg	240
agttctgata	atcggggctg	aggggtgaaa	agaaatccag	tcagacagac	agtgggggag	300
acaggtccct	gccctttatt	tgccgggatc	aatcagggac	tccanaaaag	gaaggagaat	360
ggtgagaagg	ccctaagagt	tcgtctctca	cctggggctg	tgacgtggca	ccacaactga	420
aacagctatg	ggtggcggtg	tgtgttaacc	tcacgtntct	aactgacatt	gncaaagagg	480
aggagtntac	attcagatgg	caggcggttc	ggaacaacac	attattaatg	gctagcagtg	540
acatatgaga	aacagatctt	atatctccag	gtagcaccca	nctgttggtt	tcatatcttg	600
agaganaatg	gatannact					619

<210> 1603

<211> 721

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(721)

<223> n = A,T,C or G

<400> 1603

ttgaanncca	tacaactact	tgtctttttg	caggatcttn	tagacctttg	tgaaccagat	60
gatgaaagtg	gctatgatgt	tttagccaac	ccccaggac	cagaaagacc	aggatgntga	120
tgacgatgcc	tntagcggat	gtgtttgaat	ttganttttc	agagaccccc	ctnttaccgt	180
gttataacat	ccaagtntct	gtggctcagg	ggccacgaaa	ctggctactg	ctttcggatg	240
tccttaagaa	attgaaaatg	tcctcccgcg	tatttcgctg	caattttcca	aacgtggaaa	300
ttgtcaccat	tgagaggcca	gaattttatc	ggcagggttc	tgcaagtctc	ttgttctctt	360
gtcccaaaga	cctgggaagc	cttcaaccct	gaaagtaagg	agctgttaga	tctgggtggaa	420
ttcacgaacg	aaaatttcaga	ctctgctggg	ctcctctgta	gaagtgggct	tccaccccag	480
tgatctggcc	tcagacaact	actggtgagc	aagctggccc	accatgtaca	gtgtggtata	540
gtggttaatc	cttgtgcata	tgtgcataat	acaactattc	tgnaagaaa	ggcactntac	600

atatgaaaat atttntnttt tatataagaa aaattactcc agtcagaaag gacttaaaaa 660
 catgtttttt tcttttttaa acttttaaag tcaagttttt atgaaagtgg gttttaatng 720
 t 721

<210> 1604
 <211> 738
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(738)
 <223> n = A,T,C or G

<400> 1604
 ttngatacag ctcttgcttt ttgcaggatc ttatcgattc gaattcggca cgagccctat 60
 cttatgagaa aagtaacttt gaaaggacta atacatcctg ttcttagctt ntgcttcctt 120
 caggccttct ctatgaagcc agcctattct gctcagcgtt ttggaacact gattctatctt 180
 catggaccga agcattgccc aattgtagaa ttgcaataaa gccaaactgag atctttaaat 240
 tggctataat tcatcctttg gcaatacagt aaaaaaaaaa aattctcaca attctgtaga 300
 agggatagag atatacaata aaagacaccc ccaccctctg caatctacca ctcacagtag 360
 tttatctggt ggtttccact ttttaacaat ggtctgggccc aggtgcagtg actcactccc 420
 gtaatcctag cactttggaa ggtcagggcg ggcaggttgc ctgagctcag gagttcaaga 480
 ccaacctggg caacacagtg aaacccctgt ctctactaaa atacagaaga aaattagccg 540
 ggtgtggcgg catgcgcctg gtagtcccaa cttactcgtt tggctgaggc aagganaaat 600
 tgcttggaac ccatgaaggc aaaaggntgg cagtggagcc cgagaatcat tgccggnttg 660
 cacttccaac cctgggggtg gacaagaaac cgaagaactt ttgtctttta aaaaaaat 720
 aaattaaaaa aaaaaaaa 738

<210> 1605
 <211> 715
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(715)
 <223> n = A,T,C or G

<400> 1605
 naattccata canctacttg ttcttttttgc aggatcccat cgattcgaat tcggcacgag 60
 agaaggctgc ctctaccttg cccagaacac aaagggtgctg cagatgctgg aggggaaggct 120
 gaaggaggag gacaaggntt tcatcaccag gganaatgtt nttggggccc tgcanaagtt 180
 cagtctcagg cgcccgtgc agacagcgat gattcaagac ggccctcatct tctggctggt 240
 tgatgttctg aaggaccctg actgcctgtc tgactacacg ctggagtact cgggtggcttt 300
 gctcatgaac ctctgcctcc gcagcacagg gaagaacatg tgtgccaagg tgggcaggcc 360
 tcgtgctcaa agtcctttcg gatcttcttg gccatgaaaa ccatgagata cagcccgtat 420
 tgtgaatgga gctcttgtag agcatccttt ctgttccatc ctttctggag gaagcaagan 480
 caatgggaat ggaagacatc ctacctgctt catcaaan gcaatgctga aatgaccgcc 540
 agatagaatt catcatcaag cagcttaaat tccgaagagc taccagatgg tgttctttga 600
 atcttgntga tgatgaagat gaagatgntg aaggaggacca tgacntcntg gaagccgatc 660
 ttggcaaaaa ccaactgatn ccaccccact tggaaaactc tcaggaaana agctt 715

<210> 1606
 <211> 682
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(682)

<223> n = A,T,C or G

<400> 1606

tnnattcnat	caacctactt	gttctttttt	caggatccca	tcgattcgaa	ttcggcacga	60
gggtgggtgg	cagagggaaa	tccaacatgc	agactgtggc	agtgtcttga	acttctgttt	120
attcaggtca	ttgantaaaa	aactcttttc	ttctgcattc	ctgtctttct	gcatgtgtgt	180
gtgtgtgtgg	gctgggtagg	gactgttttt	gagatcactg	gctgaaatgt	attctagggg	240
tgaaggatct	aggatgtacc	tgctcgtcat	ttcctgactt	cacctttacc	aattcttttc	300
ttaacaaatt	taaaattggt	cagagcagga	gctgctagct	ggcttttaac	agtgtttctc	360
ataatggcag	tactcagcaa	atagtttttc	tcttgtctcc	taaaattaag	ttgcaagact	420
aatgtataca	acagtataat	ttaagctaaa	gaactcagta	taggctgggt	gtggtggttt	480
acgtctataa	ttccacactt	tgggangctg	aggtggaagg	attgcttgag	cccaggagtt	540
tgagaccacc	tgggcaacgt	agggagaccc	tgctctacaa	attaaaaacc	caacacacca	600
aaaacctcta	ctggcacgga	gtgggtgcgc	ctgtgtccct	actccaactc	tcanaggcag	660
nangacatcc	tgggccaag	ag				682

<210> 1607

<211> 1356

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1356)

<223> n = A,T,C or G

<400> 1607

cncncgncga	annactntgn	tanatgtaag	aaataatgat	nctnngcntn	atancnamnt	60
nnncaaaacn	attagntnnn	taatanagan	tncnnngggn	annatnagcn	aggcttgtaa	120
ccttggaan	ccgtnggtca	gtccagnnag	tcacgnnnnn	cnnnngnnn	ttactctatc	180
ncntatntnc	nctngnatnt	tttnacnngc	nggaanaatc	naccncctcn	nggtggngaa	240
ntagnggggn	aagtnnctgn	aacnataacc	atggngntga	gngcnagaaa	ancgaggaga	300
gatngggaga	tgcggcacct	ntgttnaaan	cctgcnnnnc	tgngannncc	nntggngnnt	360
cgggagnanc	nnactcctan	nnngangacn	ggnnnatnga	atngttannc	gnanaaacan	420
ccgtgactaa	atgtgtcgtg	ggaagannng	gnngtcgnnt	aaaangnttg	atancgnntn	480
ngancatntg	gatttgagta	atangaaang	ancnncgggt	ngnattnnag	ngaangganc	540
gggcgnnanc	cnnccancnc	gantgaagnn	cgncaanncc	ncancnaact	ggnnntcnnt	600
anaantgntg	antgcctnta	nannntnagg	ggcggggaat	acnatectaa	atcgtggnan	660
catacactga	ggnaatntnn	annanaagaa	tnnctcnnac	atntnnatag	ananaagant	720
atntnnagtn	tctnnaaanac	ncanaanntc	cnttgtncaa	agngaaatgg	ncnngagngt	780
ccagcacaga	nataaacaca	tgacatccn	tgangcttgn	atcnaacacg	ngacgaaagc	840
agtngccgan	nanattmntn	tnagcangaa	gancnatatg	ctgtnnatct	cncttgncna	900
aantgtant	tancataana	ccangcncgt	nngcancgan	gangcaatan	ccncantgnt	960
nagntaangc	tnccncattn	ggnggangaa	taaaatcnga	tgngganantg	aaannnangg	1020
ngctgcncct	attacgcnaa	tcatatctaa	atatannana	ccatncttgt	nagangntat	1080
acnctnatan	tntctntcag	atgngnacgc	ttgnatgtcn	tctatcntnn	ctattcatat	1140
ctgacacgtn	cgnacgcgat	tnnattgnta	acgcacgtag	ngtgtncacn	tnnncnctcc	1200
cgngnntagn	gacagagacn	ggagannnca	tctctngtgc	gcgnatanna	gtaaagancc	1260
nnnctgtcan	ancgcgntat	cgatatntat	gnngtncttc	atncnnntaa	caaaagcaac	1320
gctcntnttn	ttncggaana	aaaaaanacc	nnnncng			1356

<210> 1608
 <211> 1588
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(1588)
 <223> n = A,T,C or G

<400> 1608

cccnnennan	ccnntnnnan	cnngncgnta	tatggcnnnn	anncttggtg	tttctccang	60
ttganengtn	ttnatngtcn	nancncnaat	ttgnnnngnt	tacnanteccg	cantgtccnn	120
tntcnattaa	ancngtaaaag	aaantncngc	ccnctgttnn	gatngtatcg	gcagtattgt	180
nantgcgnaa	tnnnacnnac	annnantata	tctggggggg	cnctnnnnnc	ntnangncnc	240
atggncnana	tgcgtcnnta	ntgtgngntn	gccccgtntg	nntctcatgn	nnctnnnnna	300
atnenncnac	cncctcganc	nnnataacnn	tnnnctcnng	ncntaganta	cnngaaaagcg	360
ctctatcnac	atccntaggc	tanagtcanc	ccnccccnnt	ctntnnntnat	ngaannntcn	420
ncntntntnt	tanaaacgat	nctncanata	ngacnctccn	ctngnntaaa	tgantattnn	480
cntcgcaann	atccaccata	tnacgtngct	caanagnngt	tncttnatac	tacannnacc	540
nnattgncgg	tnnnnacntc	acacgctgaa	agtgnnggacn	nacacgntct	ancntngnga	600
gtantntaca	ccntaanatg	tgatctntca	acnecgatct	gtacatcgcg	ncgannanca	660
cnnanngatc	ncatnaatnc	gtnacancct	anantcnana	tnatnnntcg	cncacaggnt	720
cnancctgga	ctnnatnagn	nnatgtntat	nntcactann	atntggcncc	nnngangggcg	780
cgacnancnt	ngatangag	ngntatctgt	ggannccatan	atcntngcca	cnaggtacgc	840
nnccacntna	ccgcgcngat	naagangagt	ttnacnatta	cattanagtg	ngtacgccttt	900
ncatanaact	ntaannatcn	agtataacna	gancgnataa	tctntttgat	nnnntctacn	960
cncgcgatgca	actcnnctn	ntatacnnc	tgcgntcnac	ntcnngantg	canancngna	1020
tgtnnnnatc	nnancacgac	atgtatctac	gnaggatnt	ttatntntga	ctattcnntn	1080
tancgnncga	ctgtgtnttt	anntnngcaa	ttgtgcncat	tgancgtaaa	atatntacga	1140
ctcggttcg	tatacnncga	ctcgttcnnc	gcatttacta	ngcantttcc	nctcgctaaa	1200
natccnngcc	tnnangagt	tacntcgtct	cgagtcgcgn	cnntacnecn	actgtgngng	1260
antnananct	nctntntatn	cgnnecgnat	cgcgcncgca	tatgaccnna	nntctcgcaa	1320
gtatcttcca	tagcacntaa	ancntgnntc	tnnacnata	antnnctnta	cttctcantt	1380
ttatacaatn	nantcgnntc	tannctnnng	catntacgaa	cngcgcnnnc	atgantntac	1440
annegetgnc	gtncngcgnt	annccanant	gtccgctnac	tcacantang	tncanngctt	1500
agtcnngacn	cacgtgntaa	tgntcgatcg	nagcctggcg	acatagncat	tnctgtgatna	1560
nnntnncttc	ntcncgacgc	nctnnncc				1588

<210> 1609
 <211> 736
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(736)
 <223> n = A,T,C or G

<400> 1609

ttcgatacaa	ctcttggttct	ttttgcagga	tccctcgatt	cgaattcggc	acgagtgatt	60
gatgagggct	gtcggccagg	aactgatcga	gcttggttaat	tgcatattgtc	aaatgcaggg	120
aaattgggaa	ttagtgaat	cggagaaggg	ggtttgga	acaaatgact	cgtgcctaag	180
gaaatTTTTT	gcaggaaaagt	atctcaggag	ccccgcagt	cagggagctg	ctgggttgga	240
ctcagactac	atgggtgaaa	taggcaggag	ctgggcgggg	cacagtggtc	caggcttgta	300
atcccagcac	cacactttgg	gagacggagg	caggcagatc	acttgatgcc	aggagtttga	360

gaccagctctg	gccaacatgg	tgaaacctgt	ctctactaaa	aatacgaaaa	attagctggg	420
tgtggtggca	ggcacctgt	atnccagcta	cttgggaggg	tgaagcanaa	gttgcagtga	480
gcccagagatg	gtgccatttg	cactccancc	tgngcaacaa	aaagcnaaac	ttncatctaa	540
aaanaaaaaag	gaaagaaaaga	aattttngcng	ggaccccaag	cttacattct	ttcctttttg	600
gtaaaaactgg	ttggggaaat	gggttnncc	tccgtgaaga	anccancaag	gtagggtcna	660
tcttttcttc	cccccttnag	gacatttggt	tttgcengaa	tctttaaaaa	naaaaaatan	720
aaacnactnc	ttnnct					736

<210> 1610

<211> 710

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(710)

<223> n = A,T,C or G

<400> 1610

canatacagc	tcttgttctt	tttgcaggat	cccatcgatt	cgaattcggc	acgaggggga	60
gtaacagaag	cctggataca	attactctat	caggagatga	aaggggactt	tggggagact	120
ggaatgntga	aattgtttta	taattcttca	gtagaacaga	tctgggatca	cagttttaca	180
ggggcagaga	tttaagttgg	ccctctagtt	atggagacac	tctactgggt	ttctataaaa	240
ggaatactta	cattgcccac	accagtgcac	ttcaaatctt	cagcccaagg	aangttccaa	300
cgctattgaa	tttatggaaa	cgtttgtatt	tgctattaaa	cttcaaaatc	tacaaactgt	360
aagacttgta	tttaagattc	aaacccagac	tcccaggaag	aaaaccattg	gagaatgctc	420
aatgtcactc	agaaccctta	cacacaggaa	atggattact	ctttggatat	aacaccacct	480
tcaaaaattt	ctgtttgcca	tgccagaact	tgaattgggg	acttgttttc	aagcagtaaa	540
tagcagaatt	cagttacaaa	ttcttgagg	cacggnacct	ttccaagctc	atcaaacacct	600
ntgaactttg	agttttttcg	tgaangngg	ggaatgttta	acctcnggag	aagttgattt	660
atnaaaaaaa	agacacgctt	acttgaangg	cctccatggg	aanantcaaa		710

<210> 1611

<211> 714

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(714)

<223> n = A,T,C or G

<400> 1611

tnnaatntca	natacancta	cttgttcttt	ttgcaggatc	ccatcgattc	gaattcggca	60
cgagaatgga	tgctcatata	ttgcttatgg	atatttttga	taccaaagta	ggaataactg	120
gacattcagt	attttaaaag	tggaacacct	gtacatagaa	aatagatccc	cagacagtgg	180
tctatgaaga	gggcagttaa	gtatcaaate	ttaattttct	tgcttttttt	tcttaagtgg	240
ggaaaagtcc	tagatctctt	acacctctga	cacaatctgt	tctaaaacag	gcacttgtaa	300
tggtggggcc	tccttgtaaa	cggttttttg	ccctttactc	tctgggatta	caggcgtgag	360
ccagtgcacc	cggcggaatc	ttggaatttt	tatagacagc	acctcagttt	ctgactccag	420
ccgcacacct	tctgcctcta	ccagcanggg	ttgccgccag	accagaccag	ggccaggtcc	480
ctgcgtccat	ccccccggta	ggatggacgt	gagccatcct	tctagggggac	ttttttcaat	540
gtgcgaactc	gtctcttggt	aggtgggtang	aaccagtttg	tntggnetgt	gccacgcctc	600
cacaatgccg	tggtctgggt	tcttggtgtg	tggnctgtgg	tccccttgte	cctgcangaa	660
nccaacaagg	cattcgtggc	gtggacaact	tgtgttccaa	anccactggc	ccgg	714

<210> 1612
 <211> 698
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <222> (1) ... (698)
 <223> n = A,T,C or G

<400> 1612

tncanantta nctcttgttc tttttgcagg atcccatcga ttcgaattcg gcacgaggta	60
tgcccccttca gaacatgcag agtgtatctt tttttaaatt tctccttccg tttcttaagt	120
attgcgcgaga tttgttcaac tttgttaaata tggacatcac tttttttttc tttgagaaaa	180
cacttgtatc agctttgtgg tgttttcagg gagacagctg tctgcattcc ctgtagaaac	240
ccagcaatga ttatgcacgt tgagacatgt gctttttatt tcttagcaag atattttatc	300
tctgtacata aagtagaaac caaaagctag ggaaacagat actctttaca ccatcatgcc	360
acgcattgtt tttaaagcat tgcgttaaaa aaaaattaac taaaccaaga tgctgtgatt	420
ttttaagttg caatatgttt ttggtttttt tcatttttta atcattgcag ttaagagaaa	480
tggaaattaa gttgtgttaa atcttgcaga atgtttgcag gactgactat caaactggat	540
gatttccatt tatccctact gngtcagggt caagcatcaa aaatcccttg cntctgagac	600
agacttntca ncatcaggga cagggatctg gtgtgtcatt atacaaaaca gtctaggggg	660
tggaactnctn tagtaaaaaa ataaaataaa tggncctt	698

<210> 1613
 <211> 698
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <222> (1) ... (698)
 <223> n = A,T,C or G

<400> 1613

ttnnanttca natttgactn cttgttcttt ttgcaggatc ccatcgattc gaattcggac	60
gagaacaaca aaaatctgaa cagaaatgct ctatttacgt tcttttcctt atctgtagtg	120
ttttaaagtc attaaactta aaaatgatgt tcaggagaag atgagtgtat ttgcatagtc	180
tgtcataact ctggtattat tttgtacaag gagtgtgtta gggttttcag ttgtaaccat	240
gcagaaaatc tacaaaaataa aagcagttgt taattagtc tttacaatca gaattgtcta	300
ttttggaaat ttatgaagta cttcagatgt aatttaagaa attgtatttg agccaagcgt	360
gggtggctcac acctgttatc ccagcacttt aggagcctga ggcagggtgga tcacaaggtc	420
aagagttcga gaccagcctg accaaccatgg tgaaaccca tctcaactaa aaatacaaaa	480
cttaactggg ccgtgggtggc gcgcgcctgt aatccacta ctcaggaggc tgagtcagga	540
gaattacttg aatctaggag gtggaggttg cagtgcgcgc agatcacgcc ctgcacttca	600
cctggaaang angggaaagg gaaaggaaan gggaaaagga aanggaaang ggatgggtttt	660
caggctgggc acggngntta cgctgtaat cccacact	698

<210> 1614
 <211> 701
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <222> (1) ... (701)

<223> n = A,T,C or G

<400> 1614

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ttcntatcag ctcttggtct ttttgcagga tcccatcgat tcgaattcgg cacgaggcaa      60
cgaaataatt ttaaagtgga tctgggttgg tagtgcttat gggagttagg caaggaaaaa      120
tgcagattct ctttagaata tcttcaccta ggtcccaaag gattctcata gatagatttc      180
caacaaatat gaggttataa taaaaaatac aaatcacata tagaagtatg gcaccatgaa      240
tgagaaagga aaaactgtca gaacaagacc ctcaagactt tactggaatt aacaagcaat      300
atgtaaagta aatagaaata agctattcat aataagaata atgtataaga gactactaaa      360
aataactggg cagatttgaa aataatctaa gttctgggaa tgaaaataat aactgaaaaa      420
cagctganag agagaattaa tgaactaaaa gaaagttggt tagagattat ccagaaatta      480
ggacaaatca tcataaagaa aatatgggta gaaaagggtta agatgggaagg ataaggcaag      540
tgcttancat atgtccagaa ggaaataata gaaaaaaatg tnttaattcc tccncaactgg      600
taaaagacat gatggctcag attcagggaa ttgtacccat ctcaaaaaaa aaaaaaagga      660
angaaaagtg gccaggggaa atccttatta aaatcctntg g                          701

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<210> 1615

<211> 791

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(791)

<223> n = A,T,C or G

<400> 1615

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ttnanttcan attnanctct tgttcttttt gcaggatccc atcgattcga attcggcacg      60
agatccctac ctagaagaga atagatggga agagaactga aagaaagaat tcctcaagca      120
ctgaagtcag gaaaatcccc gtaggcaactg tattagtgtg tccatttatc ccagcactcc      180
acttggtgat gaaggagttg tatagaaagg agatgagaaa atggcaggag tgggaagcagc      240
caagaagaga tcgatgactg aagatctcct tcaccttcag gactgtctca aggggttatt      300
tcacctctac tcatgaggat ggccagtttt tctgtctttt atcttttagac ccatatataa      360
tcagttcaga gcacaaatca aaataaactg gcctaaataa ctgaatctag gaacaaagct      420
acatcttttt tcatatgcca aagctctggt tcctcatggt gttcctactt ttttaaataa      480
taaatgggct tctcaaccat cttaaggaac taagatgggg tccccatctn gggtagnaac      540
ccggtctnta antttttaag aaatcactct tggtaaattc tttancctca ctttaaaaaa      600
anttanggaa aaccnccggt tnanttngga aaaaagggaac cgggggnaga aaccttcggt      660
cntggccagg gntttttngg ccaagtggaa aaantttggg tcnttttncct agngngnaaa      720
ttggcctant taantttttc caaaaatttg gcccttatta ggtccaaaaa aaagcctttt      780
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```

<210> 1616

<211> 741

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(741)

<223> n = A,T,C or G

<400> 1616

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ancccnttga aattcacata caagctactt gttctttttg caggatccca tcgattcgaa      60
ttcggcacga ggtaatcctt tctttttctt ctccctcttt cctgctctta cttatacagt      120
taggtgaata tgatgtctca cttccccac agatactcaa atagctctga ctgctgaaat      180

```



```

attggtatct tactgtcagc acataacttg ttgctgtgtt attgacattt tcaactgtttt 240
gaaattttta ctgttatctg ggtttgaatc ccagctctcc caagcttcag ttttctttca 300
tttgtcaaat gagataaaaag tatccacttc ataggggtgt tatgaggatt aatgatgaat 360
acaaaacact taacatagta cgtggcatgt aatattagtt gtaaagttaa tgtattcatt 420
atcatcattc tgtttcaaat cagcaatgaa atacagacta cactaatccc atttctgctt 480
ggaattgtga gtctaaatgc catgtagcag ttccctgctt gaaatacact gtaaaccctc 540
caattgcagt caagaatttt actaccttct anggtatacc agggatgggtg ggaacataag 600
taaacccttg agatttggct tttccccgtg gtttgggaat tctaancctt ttctaccaa 660
aaaggtaggt aaccctaaa aattttcta taccatgccc cacntggat ggcctnctn 720
ccaattaaaa actttcagta a 741

```

<210> 1617

<211> 738

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(738)

<223> n = A,T,C or G

<400> 1617

```

ttnanttcan atcanctctt gttctttttg caggatccca tcgattcgaa ttcggcacga 60
gccctatctt atgagaaaaag taactttgaa aggactaata catcctgttc ttagcttctg 120
cttctctcag gccctctcta tgaagccagc ctattctgct cagcgtttg gaacactgat 180
tctatttcat ggaccgaagc attgcccatt tgtagaattg caataaagcc aactgagatc 240
tttaaattgg ctataattca tcttttggca atacagttaa aaaaaaaaaat tctcacaatt 300
ctgtagaagg gtatgagata tacaataaaa gacaccccca cctctgcaa tctaccactc 360
acagtagttt atctggtggt ttccactttt taacaatggg tctgggcccag gtgcagtgc 420
tcaactccgt aatcctaaca ctttgggaagg tcgaggcggg cagggtgcct gagctcanga 480
gttcaagacc aacctgggca acacagtcaa acccctgtct ctactaaaat acagaagaaa 540
ttaaccggg tgtggcggca tgcgcctgta gtcccagcta ctcgtttggg ctgangcaag 600
gaaaaattgc ttggaacca ttgangcaaa aggnntgcag tggagcccaa aatcaatgcc 660
ggttggnact ttcaaacctt ggggtggaca aaaaccgaag aacttttgtc ttntttaaaa 720
aaaaattaaa tttaaaaa 738

```

<210> 1618

<211> 722

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(722)

<223> n = A,T,C or G

<400> 1618

```

gnnttttann ncnntttan ttctcanatac anctacttgt tctttttgca gggatcccat 60
cgattcgaat tcggcacgag atcatattca agttggcagg tttgactgtt cctctgcacc 120
agacatctgt agtaatctgt atgtttttca gccgtctcta gcagtattta aaggacaagg 180
aaccaaaagaa tatgaaattc atcatggaaa gaagattcta tatgatatac ttgcctttgc 240
caaagaaagt gtgaattctc atgttaccac gcttggacct caaaattttc ctgccaatga 300
caaagaacca tggcttgttg atttctttgc cccctggtgt ccaccatgtc gagctttact 360
accagagtta cgaagagcat caaatcttct ttatggtcag cttaagtttg gtacactaga 420
ttgtacagtt catgagggac tctgtaacat gtataacatt caggcttata caacaacagt 480
ggtattcaac cagtcacat tcatgagtat gaaggacatc actctgctga acaaactctg 540

```

gagttcatag	angatcttat	gaatccttca	gtggtctccc	ttacacccac	caccttcaac	600
gaactagtta	cacaaagaaa	acacaacgaa	gtctggatgg	ttgatttcta	ttctccgtgg	660
tgtcatcctt	gccaaagtctt	aatgccaaaa	tggaagaa	tggtccggac	attaactgga	720
ct						722

<210> 1619

<211> 702

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (702)

<223> n = A,T,C or G

<400> 1619

ttnanttcan	attgactctt	gttctttttg	caggatccct	cgattcgaat	tcggcacgag	60
gaactaatga	aaagtgggtg	tctctaacct	tggtatgctt	tcagagcntc	agggttaa	120
tacctcaact	tttggcaggt	ntactctaaa	gctattaagt	atntaatatg	ggctcggcat	180
gggtggctcac	acctgtgagc	cacctancac	tttggcagtc	caaggcggac	agatcacttc	240
aggtcaggag	tttgagacca	gcctgtccga	cggtgggaaa	ccccatctct	actaaaaata	300
caaaaaccga	ncgtgggtgg	tggtcatgcac	ctgtgggtccc	actacttggg	aggctgaggc	360
agganaatcg	cttgacccag	gaggcggagg	ttgcagtggg	ccaagactgt	gccactgcat	420
ttcagcctgg	gtgacagagg	gagactgtct	caaaaacaaa	aaaacaaaaa	acaatggctg	480
ggcacgggtg	ctcacgccc	taatcccagc	actttgagan	gctgaggcgt	gcgttatcac	540
cttgagggtca	aatgttgaan	accagcctgg	tcaaaacttg	tgaaactgtc	tnaccaaaa	600
atacaagaat	taggtggaca	tggtgtcggg	ctctgtaatc	tcaacttata	aggangctga	660
ggcaggaaaa	tggttttgaa	cccaaggang	tggaagtcca	at		702

<210> 1620

<211> 1028

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (1028)

<223> n = A,T,C or G

<400> 1620

ttgatctttg	attcnatcaa	ctcttntctt	tgaggatcca	togttcaatt	cggcacgagc	60
cgcnaactctg	nncgcccgtg	tggaacaagt	gccccnttn	cncctggang	aattcgtneg	120
gcgcctaggg	ntgaactnga	ccacgatata	cgatnggcat	ggagctgnaa	gaacaggggcg	180
ctgnccttgn	gccnagggn	gcnaatacan	tnatgcttnt	cgnaacctgg	gaaangctgg	240
ntgcaactcc	cnatgggtt	tcggaagngn	ccaacggctt	ggggnaaacc	ttgccttggg	300
gaaacgteen	nttgtcttnc	ccgatntaa	ccaattnggg	aacccccctt	gctttngggg	360
gncnttggcn	cctnngggga	annggaacca	ttttccnata	tnnggaaang	gccccnctt	420
nttttggncg	gaagcccccc	anncccttnc	ccntttcccc	tggttgcncg	gcccagacctc	480
caaattgcct	tttttttnaa	ataattgcaa	anggccttga	ccccccccc	ttnantgnng	540
ccaggctttt	taaaanggaa	cccggttccc	ttgntaaaaa	atcnacctt	taccnnaacc	600
cccaactttt	ntttttntt	ggaaaaaaag	ggaaangggg	atccctggcc	atggnggcca	660
aantcnaagt	anacttatcc	aaaatccgga	gcttnacctt	ttgnttggct	ttaaacccca	720
anttcggatt	nttaccanta	aacttttttc	ctttnaaaac	taaatccttg	accnncgncc	780
ntctcttaac	aattaaaaanc	ntccttgttt	ncctcctcca	naaaaaagna	tnnttncnc	840
cccanagnng	ccttcaaaaa	aaacnnttgn	gggtgggggt	gggattttng	ggaaggaaan	900
anaagggaac	ccnttttgcc	tnaaagccc	cntnttttgg	ggttttaact	gaacnaaanc	960

caagggtttgt ttngnaggcc ccttngggnc canncctttt aanccntttt tcaccaatng 1020
gcantaan 1028

<210> 1621
<211> 749
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(749)
<223> n = A,T,C or G

<400> 1621
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ggcacgaggc ggctcttttc cctcgtgact cggttgctcc tggcgccgcg acggggcctc 120
acgggtccgc gtcgccgacga acccctgccg gtggtgcncn ttccaaaaaa gctcccgaga 180
cntacttttt tgcacagaca tagcctntcg gggcctggac agcactggtg tggagctggt 240
tgtcaattat gatttccccc cacgcttgca agattacatc cacagagcag ggagagtggg 300
ccgtgttggg gagcnagggt ccaggcacccg tcatcagttt tgtgacccat ccctgggatg 360
tgagcctggt tcanaagatt gagctggcgg ctgcgccgaag gagaagtctt ccaggactag 420
cactctcggt gaaagagcct ttgccccaac aacctgattt tgacaaatct gattaaaatg 480
tgatgctaga cagggatctt tcccagtatc ttgagtgggg tgaccacact ttgtcagtgg 540
ggagggctnt gggcttgccc ttgtcngctt ccttgagggc cgggatgaac tgcttttgtg 600
aactttggaa aaggtacccc tgcttggncc agcatttggg angaaaaaaa cctgcttgaa 660
ncattggctt ttcttgaag tcntttaanc aaagaacaca aagtgggatt ttggactttt 720
ggantcatgg tcattgaatt tcttaacaa 749

<210> 1622
<211> 707
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(707)
<223> n = A,T,C or G

<400> 1622
tttnatncnt ttacaactct tgttcttttt gcaggatccc atcgattcga attcggcacg 60
agctgaccc cgccttccag aanganctga aggagatcca gtacggaatc agagcccacg 120
agtggatggt cccggtgtga actgcaggct gtgtccaga tccaccgacc cgtagcatct 180
cgtcacgcca gcactcgcc cctaccaat gactcacctg aaattgaaac gggcaggaaa 240
tagtctggca gcctctacag cagaagaaac ggcaggcagt gcccagggtc gtgcccagga 300
ggctgagcag ctgctacgcg gtccctctggg tgatcagtac cagacggtga agccctagct 360
gagcgcaagg cccaagggtg gctggctgta caggcaaggg cagaacaact gcgggatgag 420
gctcgggacc tgttgcaagc cgctcaggac aagctgcagc ggctacagga attggaaggc 480
acctatgagg aaaatgagcg ggcactggag agtaangcag cccctcgctc cgggttcang 540
tccgcccatt actnctttgt cgtgcngtca aaggatacac ctttgccccc gattnccgga 600
tcttnttccg ttctcangcc anaacccctg gtgcttgccg gtgaattttt tttttctctg 660
gctttgcttg caatttttga aaataaaaat nccnaaaaac aaaaaat 707

<210> 1623
<211> 707
<212> DNA
<213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(707)
 <223> n = A,T,C or G

<400> 1623

ttnaannccn nnttgaattc atatacagct acttggttctt tttgcaggat cccatcgatt	60
cgaattcggc acgaggagag agagagagag agagagagag agagagagag agagagagag	120
agagagagag agagagagag agagagagag agctnacacc agaagaacaa ttagcagata	180
aactgcggct aaagaaatta caggaagagt cagacctcga attagcaaag gaaacttttg	240
gtgttaataa tgcagtttat ggaatagatg ctatgaaccc atcttcaaga gatgacttta	300
cagagtttgg aaagttacta aaagataaaa ttacacaata tgaaaagtca ctatattatg	360
ccagtttttt ggaagtctta gttagagatg tgtgtatttc atgtaaagta attctaattt	420
ctagcccttc tgggtagatt tttagtagga tgttctcttc aggagggtga aggttatttt	480
ttattttcaa ggatactata atacanactc atgatttgct gtttttagca attaccttgt	540
gaatgtgtgc tgcanaatcag tgaatttgag tgctggatct tttgtttgt tgnaggggta	600
agaagacttn ttgtttacaa tggcttcctt taaaanatac ctgggcttgt caccaaagca	660
nttaataaaa cactggcctn ttntttttta aaaaaaaaaa aaaaaaa	707

<210> 1624
 <211> 683
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(683)
 <223> n = A,T,C or G

<400> 1624

ttganttcgt tcagctcttg ttcttttttg aggatcccat cgattcgctc agccctcggt	60
caaaagaatc tgttccagaa ttcccccttt cccctccaaa gaagaaggat ctttccctgg	120
aggaaattca gaagaaatta gaagctgcag aagaaagacg caagtcccat gaagctgagg	180
tcttgaagca gctggctgag aaacgagagc acgagaaaga agtgcttcag aaggcaatag	240
aagagaacaa caacttcagt aaaatggcag aagagaaact gaccacaaa atggaagcta	300
ataaagagaa ccgagaggca caaatggctg ccaaactgga acgtttgcga gagaaggata	360
agcacattga agaagtgcgg aagaacaaag aatccaaaga ccctgctgac gagactgaag	420
ctgactaatt tgttctgaga actgactttc tccccatccc cttcctaaat atccaaagac	480
tgtactggcc agtgtcattt tatttttttc ctctgacaa atattttaga agctaattgta	540
ggactgtata ggtagatcca gatccagact gtaagatggt gttagggggc taaaggggag	600
aactgaagtg ttttactctt tttctaagtg ttggctttct atgnactatt ttcttgtgct	660
cttttactt cntcacttgg ggn	683

<210> 1625
 <211> 707
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(707)
 <223> n = A,T,C or G

<400> 1625

ttgatnctt acatttnatc cttttttgca ggatcccatc gattcgtttg gctctacttt	60
gcaggggaatc tggcatcggg tgggtgccga ggggnacat ccctgtgttt tgtgtacctt	120

cttgattttg	cccgtagccg	tctagcagct	gatgtgggta	aagctggact	gaaaggggaat	180
tccgaggcct	cggtgactgc	ctgggttaaga	tctacaaatc	tgatgggatt	aagggcctgt	240
ccaaggcttt	aacgtgtctg	tgagggtat	tatcatctac	cgagccgcct	acttcgggtat	300
ctatgacact	gcaaagggaa	tgcttccgga	tcccaagaac	actcacatcg	tcacagctg	360
gatgatcgca	cagactgtca	ctgctgttgc	cgggttgact	tcctatccat	ttgacactgt	420
tcgcccgcgc	atgatgatgc	agtcagggcg	caaaggaact	gacatcatgt	acacaggcac	480
ccttgactgc	tggcggaaga	ttgctcgtga	tgaanganc	aaactttttt	caaggggtgca	540
tggtccaatg	ttctcanaag	catgggtggn	gcttttgnrc	ttgtctttna	ttgatgaaat	600
caagaagtcc	accntaagtt	tatttcctan	gattttttcc	ccctgtgaaa	caaggcattg	660
ttggaantta	atatnaacaa	antctttgaa	ncattttttt	gaacana		707

<210> 1626
 <211> 700
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(700)
 <223> n = A,T,C or G

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agcgaagtcg	ggatcgaaga	aagatcaaaa	agccgggatac	gaaagtcata	taagcacagg	120
gagcaaaaagt	cgggacagag	aacaagatag	aaaatccaag	gagaaagaaa	agaggggatc	180
tgatgataaa	aaaagtagtg	tgaagtccgg	tagtcgagaa	aagcagagtg	aagacacaaa	240
cactgaatcg	aaggaaagtg	atctaagaat	gaggtcaatg	ggaccagtga	agacattaaa	300
tctgaagggtg	acactcagtc	caattaaaac	tgatctgata	agacctcaga	tcagacagag	360
gactactggt	cgaagatttt	tggagaata	ctgagaacgg	cataaagtga	agatcgacat	420
ttaaaaaatg	aggtgaaaga	aagctatagt	ggcatagaaa	aagtataaag	ctcagttagt	480
ttttttatta	ttattattat	taaaagttaa	ttcaggactg	atgtgacctc	ccagatttca	540
gaacatgtgt	taatagtata	tatgccactg	aaaacttagg	tcctgtatca	tacttttttc	600
tttaagactt	tttaagaaat	attacttaaa	ccttgtggct	tgctcagtg	tttaattgcc	660
agtttcaatc	ttggactttg	aaacaggatt	aaccgtagtn			700

<210> 1627
 <211> 703
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(703)
 <223> n = A,T,C or G

ttanatacaa	gctacttggt	ctttttgtag	gatccctcga	ttcgaattcg	gcacgagctt	60
gagtcctagga	gttcaagacc	agccttggca	acgtgggctaa	acccatttgc	tacaaaaata	120
tatatataca	aaaaattagc	tgggagcggg	tggcacatgc	ctgtagtccc	aactactcag	180
gaagcccgan	gtgggagaat	tgcttgagtc	tggggagcag	aggttgagct	gagctaaggt	240
catgccactg	tactccagcc	tgacagagca	agacctgtgc	ccccgacaaa	aaaaagcatc	300
atgagcaact	ctcccaaggc	tggccctctg	acatgtcttc	ccatccacca	atagagtccc	360
agttcatagc	cattgtcaca	ccattgtcct	gtcttctctc	caactgaggg	tgatgtttag	420
aggcatgatt	tctatcta	attgaagcca	gaggtcttcc	caacattttc	cagagtcttc	480
ttgtagaaaa	ggagctatgg	atgtttcctt	gaaaacangc	cccgtatcct	gtgacacacc	540
catcacatgt	tgctcaaagc	tatcccaaga	tattaccaaa	tattggacat	cctgtcctgg	600

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gtgagcaggt agcagtgcta aggtaagaca aagttncag ttctgggagt cttcctactt 660
ccaagaaggc caatccttga gcagtgtgga ttctgtggt tat 703

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```

<210> 1628
<211> 715
<212> DNA
<213> Homo sapiens

```

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<220>
<221> misc_feature
<222> (1)...(715)
<223> n = A,T,C or G

```

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<400> 1628
tttgaatccc tttaacaactn cttgttcttt ttgcaggatc ccatcgattc gcccctgttt 60
acagcaataa gcacgtcctc ctcccnact cccattccag gattgtggtt tggattgaaa 120
ccaagtttac aagtagacac ccctgggggg gcgggcagtg gacaaggatg gcaagggggtg 180
ggcattgggg tgccaggcag gcatgtacag actctatata tctatatata atgtacagac 240
agacagagtc ctttccctct ttaacccctt gacctttctt gacttccctt tcagcttcag 300
accccttccc caccangcta ggccccccac acctggggga cccctgggcc cctcttttgt 360
cttctgtgaa gacaggacct atgcaacgca cagacacttt tggagaccgt aaaacaacaa 420
gcgccccctc ccttccagcc cttgagccgg gaaccatctc ccaggacctt gccctgtctc 480
ccctatgtgg tcccacctat nctcctgggc cttttttnaa gtgctttggg ctgtgacttt 540
catactctgc tcttttagtct aaaaaaaaaa aaactggaga tnaaanttnn nnnntnccaaa 600
nnnnnanant tnnnnnnnnn anngnnnnnn nnnnnnnnnn aaantnaatt tnnntnnnan 660
ttgtntnnng ctnttanaaa tanantnnac ccttntctnt ataaaatttt gnnng 715

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<210> 1629
<211> 694
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1)...(694)
<223> n = A,T,C or G

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<400> 1629
ttcanatata agctacttgt tctttttgca ggatcccatc gattcgaatt cggcacgagg 60
cctacactag tgaattaatc tgaaaggcac tgtgtcagtg gcatggcttg tatgcttgctc 120
ctgtggtgac agtttgtgac attctgtctt catgaggctc cacagtcgac gctcctgtaa 180
tcattctttg tattcactcc attcccctgt ctgtctgcat ttgtctcaga catttccttg 240
gctggacaga tggggttatg catttgcaat aatttccttc tgatttctct gtggaacgtg 300
ttcggtcctcg agtgaggact gtgtgtcttt ttaccctgaa gttagttgca tattcagagg 360
taaagttgtg tgctatcttg gcagcatctt agagatggag acattaacaa gctaattggta 420
attagaatca tttgaattta tttttttcta atatgtgaaa cacagatttc aagtgtttta 480
tctttttttt ttaaatttaa atgggaatat aacacaagtt ttccttcca tattcctctc 540
ttgagtttat gcacatctct ataaatcatt aagttttcta ttttattaca taaaattctt 600
ttagaaaatg caaatagtga actttgtgaa tggatttttc catactcatc tacaattcct 660
ccatttttaa atggactact tttattttta aatt 694

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<210> 1630
<211> 908
<212> DNA
<213> Homo sapiens

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<220>
 <221> misc_feature
 <222> (1)...(908)
 <223> n = A,T,C or G

<400> 1630

gaaaaccctt	ttgaaatncc	cnnnttnaat	tcanatacaa	gctacttggt	ctttttgcag	60
gatcccatcg	attcgaattc	ggcacgaggt	ggcaaagctt	catccagtct	aggtcttcag	120
gattttgatt	tgctccgggt	aataggaaga	ggaagttatg	ccaaagtact	gttgggttcg	180
attaaaaaaa	acagatcgta	ttttatgcaa	tgaaagttag	tgaaaaaaga	gcttggtaat	240
gatgatgagg	atattgattg	gggtacagac	aggaagaagc	atgtgtttga	gcaggcatcc	300
caatcatccc	tttccttttg	ttggggcctg	canttccttg	gcttttccag	nacaggaaaa	360
gccaagaatt	ggtttctttt	ggtttantaa	ggaagttant	ggtaaaaaat	ggggaaggga	420
agaaccnta	aatggttttt	ccantaatgg	ccaggccgga	acaaaaagg	aaaaaacct	480
tttccntgg	naaaagnaaaa	ccaattgncc	ccaagaaatt	tttttaacnt	tcttgcccaa	540
gaaaaaaatt	caaagttcct	taagcccant	tttaaaaaat	ttaattcctt	ttcnattgga	600
agcccgaag	gggaattaaa	nttttnanta	aggaagaatt	ttgnaaaacc	ttggggacca	660
aatggttatt	taacctgggg	acntcntgga	aaggcccacc	antttaaaac	ntccactgga	720
cccaccggcc	attgtgttaa	aggaaaggat	ttaccggcca	gggnaagata	ccaaccagca	780
ctttctggng	gtacctncta	attacatgct	cctggaaatt	ttaagangag	aagattatgg	840
nttcaatggt	gactggtggg	ctcttgaggt	gctcatgttt	gaagatgatg	gcaggaaggt	900
ctcctttt						908

<210> 1631
 <211> 710
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(710)
 <223> n = A,T,C or G

<400> 1631

gaancccttt	nnnnttnnaa	ttcananaca	ngctacttgt	tctttttgca	ggatcccatc	60
gattcgaatt	cggcacgagg	gaactaatga	aaaagtgggt	gtctctaacc	ttggtatgct	120
ttcagagcat	cagggttaaa	ttacctcaac	ttttggcagg	tatactctaa	agctattaag	180
tatataatat	gggctcggca	tggtggctca	cacctgtgag	ccacctagca	ctttggcagt	240
ccaaggcggg	cagatcactt	caggtcagga	gtttgagacc	agcctgtccg	acgtggtgaa	300
accccatctc	tactaaaaat	acaaaaaccg	agcgtgggtg	gtggcatgca	cctgtgggtcc	360
cagctacttg	ggaggctgag	gcaggagaat	cgcttgaacc	cangaggcgg	aggttgagct	420
gagccaagac	tgtgccaactg	catttcacct	gggtgacaga	gggagactgt	ctcaaaaaca	480
aaaaaacaaa	aaacaatggc	tgggcacggg	ggctcacgcc	cgtaatccca	gcactttgaa	540
aggctgaggc	gtgcctttat	cacctgaggt	caagatgttg	aaaaaccacc	tgggtcaactt	600
tggtgaaact	gtctctacca	aaaaatacaa	gaattangnt	ggacatgggt	tenggccttct	660
gtaatctcaa	cttantcang	aagctgaggc	angaaaaaat	ggctttgaat		710

<210> 1632
 <211> 700
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(700)
 <223> n = A,T,C or G

<400> 1632

tttgaaaccc	tttgnnantn	canttcanaan	acaagctact	tggtcttttt	gcaggatccc	60
atcgattcga	attcggcacg	agagatacat	tgaactcttc	aggagcacag	cagctgaagt	120
tcagcaggtg	ctgaatcgat	tctcctcggc	ccctctcatt	ccacttccaa	ccccctccat	180
tattccagta	ctacctcagc	aattttgtgcc	ccctacaaat	gttagagact	gtatacgctt	240
tcgaggtctt	ccctatgcag	ccacaattga	ggacatcctg	gatttctctg	gggagttcgc	300
cacagatatt	cgtactcatg	gggttcacat	ggttttgaat	caccagggcc	gccatcagga	360
gatgccttta	tccagatgaa	gtctgcggac	agagcattta	tggtctgcac	gaagtgtcat	420
aaaaaaaaaca	tgaaggacag	atatgttgaa	gtctttcagt	gttcagctga	ggagatgaac	480
tttgtgttaa	tggggggcac	tttaaatacga	aatggcttat	ccccaccgcc	atgtaagtta	540
ccatgtaagt	ttttcttggg	tcttggcgct	attctacgct	atatgctggg	aggtgcttaa	600
gctgctttcg	taactttctg	gccccgtgtt	ctttctgagc	aggtgaggtg	gttatataag	660
gctcttccat	ctgtaatcag	tagtacctgg	taatcattta			700

<210> 1633

<211> 670

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(670)

<223> n = A,T,C or G

<400> 1633

gntnacnnc	cngnncaaaa	nnacgcatnn	gngngnntgg	ctnannntng	catttttagt	60
agagatgggg	cttcacaatg	ctgcccaggt	ttttcnngaa	ccgctgacct	taancgaggn	120
gnctgccttg	gcctccccaa	gggtgcnngaa	tnacaggcat	gagccaccgn	gcccggatga	180
cancggtatt	cattaagtgt	ctntnecngga	cagnctaagt	ancnagctan	cnnncatgga	240
agtgcaatgc	cnnncanngt	ngttnttnan	ncctnaancn	gntgggncca	ggtntatnaa	300
cnancnaca	nncctgngta	gagagggact	acaggcgcat	gccaccacac	ctggctattg	360
tggattttta	naaatttttt	ttgtanagac	agggctttac	tatgttgccc	aggttggtcn	420
tganctcttg	ggetccagag	agccttccat	ctcagcctcc	caaagtgcnt	ganatnatag	480
gcgtgagcca	ccacncttag	cccattgtna	cttttttagag	ctctaatact	tcctttaang	540
gcactaaaaa	ctcaatctta	aatccagttg	ntnttcattt	gggtgaatga	aatgggnaggg	600
accctcctta	attttttttc	caggtttttg	ggattgaana	aatttcaann	atcttcaaag	660
cgacctaaan						670

<210> 1634

<211> 716

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(716)

<223> n = A,T,C or G

<400> 1634

tcccntatac	aagctacttg	ttcttttttg	aggatcccat	cgattcgaat	tcggcacgag	60
ctttaaacia	aaaatatgtt	atcctacaca	ttagtgtcaa	tccaatgggt	gtctcttata	120
tgtctaaata	gcaaaatcat	gaaaatcagc	tgttttat	gcataggaca	actaacctgt	180
ctgtgtaact	ttgtttttat	tttaactctt	actagaaaat	ctaactctta	aacatttgaa	240
ttctaaacat	gtaaaatgtg	acagcctgca	attttgtaga	cagtgaagta	atggctgcta	300
tttataaatg	gaacatctat	caaaataagt	aactgtttat	aaaattcagt	ttttgtaggg	360
ttttccaagg	aaaaatcacc	ttggttgaat	gtttctcact	cattaaactt	tgcagaagtg	420

attcatattc	agtactgttt	ttaatcactt	tttaaaatat	aaggaccgaa	tgcaaggaaa	480
ccaaagttta	ttaataattt	ttatataact	aaaaataaat	agatgtggag	ggatctgtga	540
tcatataaaa	aggganggtt	actgaaaaga	attttagcaa	tatattggtt	tcagggaaaa	600
nggagctgtt	tttattaaaa	tggatccatt	ccactggntc	cctaattgggt	tcctatggta	660
tcctttccaa	acccggatta	cccttttact	tattttttaa	aagnagccgg	taaaat	716

<210> 1635

<211> 691

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (691)

<223> n = A,T,C or G

<400> 1635

accnnaaacc	ctttgcaact	ncttggttctt	tttgaggat	cccatcgatt	cgaattcggc	60
acgaggttgg	cttccccggg	agagganttt	gaggattaaa	aatattcaga	aacaaacaaa	120
agaacacaaa	aatgcaaaaca	catggtangg	aattactact	gcttattctc	aacagtacca	180
cagaaccagt	gtttgagtgc	tggcaccata	tgcaacatgg	ggcatccggg	ctggagtgat	240
ccagtttttt	agttgggtgg	ggcgatgatt	tttctttcct	tttgggttat	aattttctgt	300
tcatttttcc	ccctttctcc	cccacattca	ttaagaacct	tactgaaacc	ctaggtgaca	360
aaagggtgtg	cttctgttgc	cacatttgac	ccaccacagg	actcactgga	ctggacttct	420
atztatattg	tattaagtaa	ctgatataata	tatatataata	tatatataata	tatttttgat	480
tgacacacaaa	aaattacctt	ggcacaaatg	ccagacctgt	gaaggtcaga	ggcccgtgct	540
ttcttccagg	agggaggga	ctttttgggt	gctgtggcaa	ttcctctgta	cagattgtaa	600
ctttttttaa	aatttccctt	cacccccgtc	acttgaatat	atgttcatag	taatttgtaa	660
gaatacttct	ttttccctat	tttgggtgca	a			691

<210> 1636

<211> 686

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (686)

<223> n = A,T,C or G

<400> 1636

tttgaatccn	tttacancta	cttggttcttt	ttgcaggatc	ccatcgattc	ggcagagttg	60
gcctttttgcc	cgtgggtgtgc	tagtancttt	ggctgatgct	aagctttcct	ggtatgcgcc	120
ctattttttaa	gaagtaattg	ctttttgaatt	aagttatagc	attactaatt	catgttaatg	180
actaggaaac	cctctgtaat	ttacaagatt	tttcaaattg	gtggggagtg	aataaatata	240
atttaaaaga	gtcagaaatc	agtttggcaa	agtgtacttt	cttaatttct	atttatgatg	300
aagtatanca	taattttatt	gtaatactac	tttatgggat	accagtgaat	gaactgtagt	360
ataaaaaaga	ggatttaatt	ttttatgaaa	tctcatgcat	cagttcatag	cataaaatct	420
agctggacaa	ctaagaagct	atggtagcaa	acagtgatgt	tgatggaatg	agaatcatga	480
actttcatat	tacctcaaag	gatttttttta	tcagtttttt	tcacacatca	gaaaaaactg	540
actgtataaa	cacttatcac	tgaccttttt	ctatgtgnag	ttttgccttt	tatcttttcc	600
caaattttat	aaagagaaat	taatnaatat	tttattacac	attgtaaaaa	aaaaaaaaaa	660
aaaaactcga	gcctntagaa	ctatan				686

<210> 1637

<211> 710

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(710)

<223> n = A,T,C or G

<400> 1637

ttccgtatac	agctacttgt	tcttttttga	ggatcccatc	gattcgaatt	cggcacgagg	60
caaggtgcag	tagctcacgc	ctgtaatccc	agcactttgg	gaggccgaga	cagggaggat	120
tgcttttagac	caggagtcca	ggaccagcct	ggccaacaca	gtgaggccct	gtctacaaaa	180
aattaaaaata	atcacttaaa	aaaatcaaat	attcttgaaa	aagttagac	ttgtaaaaata	240
taatatgggg	aaaatggaca	tggtagaaat	ganaaactac	aaaataaaac	acagacagac	300
agacctgtga	ttggtaaata	tttgatagg	tccagaaaaa	cttatggatg	aatcaaatca	360
taattgtata	atttgcctac	aaaagaactg	atccagatca	aaataatttc	aggagactaa	420
agtgaaaatg	gaaacatttg	gaantctgtt	aaacaactgg	cttaatgaac	tttgctctag	480
aaaataccct	ctcaatgaaa	atgaactttg	ctatgggtata	tttttctttt	aaatagttgt	540
agtcatgaac	atggagtcaa	aatgctctct	gggctatcaa	tttttctctt	taaaacaagg	600
cttttggtt	gcattccac	aaggctctta	aataccgtaa	ntattttccn	ttatttnttc	660
cagaatcaaa	antattttnc	caaatccctt	ttggggantt	tcttctttcc		710

<210> 1638

<211> 685

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(685)

<223> n = A,T,C or G

<400> 1638

ttcanatcag	ctcttgttct	ttttgcagga	tccctcgatt	cgaattcggc	acgagtgaaa	60
ttcagctaac	cgagcagcta	cggtccctca	tccccaacga	gggatgtgag	aaagtccatg	120
tctcatgtta	tctggacctt	gaaaatggaa	tgttcagaac	acatgtgcaa	gggagctgtg	180
ccaagctcat	gtcgcgaaca	ggcctcctga	tgaagcttct	cagcgagcag	caggaagcaa	240
aggcattgaa	tgtagaatgg	gatacggacc	aacaaaaaac	aaattatatt	aatgagaaca	300
tggaacagaa	tgaacagaaa	gagcagaagt	caagtgaagt	catgaaagaa	gttccaggat	360
atgactataa	gaacaaactc	atcttcgcaa	tatctgtgac	tgtcatacta	ataattttga	420
ttataatttt	ttgttttata	gaggtaaaga	caataattaa	ttcagggttt	caaaatacaa	480
tccctgtgtt	gtgtggattc	agaatccaca	aactgaaaaa	caacgtcact	ttcccacttg	540
acattcttct	tctgtcattt	aaaggctgan	gtgtgctttg	ttcttttact	gcaatgtata	600
ttccaggatt	ggtaaaggat	cctcgcttnc	aggaggtctc	tgtgaaataa	aacccaagtt	660
aatcccaaaa	aaaaaaaaaa	aaaat				685

<210> 1639

<211> 683

<212> DNA

<213> Homo sapiens

<400> 1639

ttcgatcagc	tcttgttctt	tttgcaggat	cccatcgatt	cggaaagatt	ctcaaggaag	60
aagtaataag	gcattacatc	tgaagagtga	tgctgaattt	aaaaagatat	ttggccttac	120
taaggatttg	agagtgtgcc	ttactcgaat	tcttgccatt	tgacctctgg	agaaggtttc	180
gattccttta	gcagtttggt	aaagagtggg	acttacaagg	agacagagtt	tatgggtgaag	240

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gaaggagaga gaaaacagca gaattttgat aagaaaagaa aagcaaaaac taataagaag      300
atggatcaca taaagaagag aaaaacagag aatgcttata acgcaatcat aaatggggaa      360
gctaattgtca cgggttccca actcctaagc agtattttac caacttcaga tgtgtcacia      420
cataacattc tcacgagtca cagcaaaacc agacaagaaa agagaactga gatggaatac      480
tatacccatg agaagcaaga gaaaggcctt tgaattcaaa tgcagcttat gaacaaagtc      540
attttcttcaa taaaaattat accgaagata ttttcccgat gacaccaccc ggagtttagaa      600
gaaaccattc gagatgaaaa aataagaaga cttaagcag gtgctgagag agaaagaagc      660
agctcttgaa gaaatgcctt aga                                     683

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<210> 1640

<211> 689

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(689)

<223> n = A,T,C or G

<400> 1640

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ttcanataca agctacttgt tcttttttga ggatcccatc gattcgaatt cggcacgaga      60
gaagaatttg gtataatcat gaaagccctg tggacaggac agtatagata tatcagtcca      120
aagggacttt aaaatcccat tggggaagat caatgaccaa gtttgagga tacagtcagc      180
aagattcaca agaattgctt ctgttcctaa tggatgggtc tccatgaaga tctaaataaa      240
gctgataatc ggaagagata taaagaagaa aataatgatc atctcgatga ctttaaagct      300
gcagaacatg cctggcagaa acacaagcag ctcaatgagt ctattattgt tgcacttttt      360
caggggtcaat tcaaattctac agtacagtgc ctacatgtc acaaaaagtc taggacattt      420
gaggccttca tgtatttgtc tctccactag catccacaag taaatgtaca ttacaggatt      480
gccttagatt attttccaaa gaagaaaact cacagataac aacagatttt actgcagtca      540
ttgcagagct cgacgggatt ctctaaaaaa gatagaaatc tgggaagttac cacctgtgct      600
tttagtgcac ctgaaacggt ttttctacga tggcaggtgg gaaacaaaaa attacagaca      660
tctgtggact tccccgtaag aaaatcttg                                     689

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<210> 1641

<211> 683

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(683)

<223> n = A,T,C or G

<400> 1641

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ttcananaca agctacttgt tcttttttga ggatcccatc gattcgaatt cggcacgagg      60
tttcttgtaa gtactctggg agtgcataat acatttttaa taagattaaa aattatgttt      120
tattcttact agcatcactg tcagataatt gagccgtgag agcattcagt gctgtgtgct      180
tggtaccgaa gtagtaacat caattcagtg ttcagtacat ccactttgtt ccagaacaat      240
gtattcaagg tcggtgtatt ttggctgtgc cacagagttc tggaaattcc caagagaata      300
agttttcacc tggtatataa tccagcacia gtgactgtgt agcagcaacc tcatgtttca      360
tgatgacttt aaaatgcaat tgattctaaa atttagcttt taaaaatttc gacttcagat      420
tttctctgaa ggtttaagggt aggccttctcc tttattaatt tttttcaaga aatatttaag      480
aacactgctc tgtgctatgt accattctaa gcactttaca gataactaatt catttaatcc      540
tcagccctgn taggtaagta ctgctattcc ccccgctccag atgangaaac agcctcagag      600
gagtaaaaaca ggttgtctcan gtacacggca gcggtgtgga ctactcagtt tcagataatc      660
actgngaaat tttactgggt tga                                     683

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<210> 1642
 <211> 716
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(716)
 <223> n = A,T,C or G

<400> 1642

tntcanatac agctcttggt ctttttgcag gatcccatcg attcgaattc ggcacgaggg	60
aacctcacct gtggctcagc tcaccccaaca tccgtttctc attacgtgta aataaactgt	120
cagagctgat gttacagctt ttacagttta aagcattccc ctccgtctcta gttccttttt	180
tcttgtttac atgttttggg cactttccct cattcaccac cttccagggg ttcatagaaa	240
ataacttggt acaaaaatcag ttcaattcta atgtggacat agtggcatgt tcataattag	300
acccatatag gggacactga gctttaaatc gttgattcta aactctatac attaaaaaaa	360
ttcagcccag gccctcaca gacctgagaaa atttaatttg ctcttaattt aatgttccaa	420
aactcactct tggaaaaatg cctgttgga aactacaggt gggtcacatg tgggggctgt	480
ctccgtgaca ctccaggattc cagtcagaac ctaatcctca tatctattgc ctacaaaaat	540
agaccaagaa tgttgctgct cttttataat cttttaaata tttaacattc aagttttctt	600
ttgtcttaaa ttcagcctct ttcttaaaag caaaaaaaaaa gacctctaga actatagtga	660
gtcgtattac gtagatccag acatgataaa gatacattga tgagtttgga caaacc	716

<210> 1643
 <211> 809
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(809)
 <223> n = A,T,C or G

<400> 1643

ttgaattccn atacanctac ttgttctttt tgcaggatcc catcgattcg aaaaaataaa	60
agtaaatctt aggcaagcta aagagtgaat tgtatcatca cataggagga agtgggggaa	120
aaaagtgaat tgtaagaaat gaaatgataa gaagaactta gtgggtattc gtttgatttt	180
ggaggcactc taggaaaatt ctgccagatt gtactacatt taaaaaaaaat tttttttaac	240
ttttgtgtgc ttcagtttgg tcatagacaa atgaaaaggc acatcacaaa ctaaaaagaa	300
aatcagttcc tatatatgat aaagggttaa tatgttttta tatggagagt tcatataaat	360
caataaacia aacactaata ccctgtacaa ataatagacc tatcaggcat cgtttctgat	420
gccgttctct gatgaaaggg aaccagggtc cctcagagaa atggctgatg cgaggactga	480
gaaaatacac cagtatggtg ggtcaaggca ccggtggctc acgcctataa tcccagcact	540
ttggggaaaag cccgaangtg gagccgggat ccactttgna nggtccangg gaagtttcca	600
aagaaaccag gcccttgggn cccaaccatt ggggtaaaaa aaccccccat cttcttactt	660
taaaaaaaaat tcccaaagga ttttagcccc caggccgtng gtngggtncc cattaccctt	720
gttaaattcc cagccttact tcaaggaaa gctttaagg ccaaggaang gaattgggtt	780
tggaaccccc ccaaaaangg ccaaaaangg	809

<210> 1644
 <211> 1387
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature
 <222> (1)...(1387)
 <223> n = A,T,C or G

<400> 1644

ccgctcngca	nnnncttctt	ntgacgcgcg	nttntntgnt	gtnnnnanncn	ncngtatgtn	60
cncntnnacc	nntgcgncn	ntcagcgtct	acganntggg	gntcatatag	gggggngatt	120
nacactgngn	gggtcnttag	nncgttttgg	aaaaaccnt	ctggcagcgn	ccngcgaggt	180
nnancganct	cgctantaag	ngngggcnn	aannngnnan	tnnngtnagg	ngcagtgnnt	240
nnntnnaggn	naattggnnn	ntantgntgn	ngnaacntna	tangtcnang	ttnantntng	300
ncngatatgg	ntttctgnta	tcgtnnnnn	cnntannnn	tngngngnnt	gtcntgatgn	360
tnnngcntgt	nnnaagannn	cttntntent	gtgnntnnnt	gtncctcggg	tgtgtnnnnt	420
ngccccctaa	tncngntnn	cannnttct	gctggnanct	nnncnntecn	ttttgntna	480
tnntccnngt	cngcntgncc	nnnnngnctn	ncgcnnnnna	ntcccgnnan	tagcnnagct	540
ntggnggctc	tnnnnntagn	ngatnnccng	tgetantnca	ncngantntn	nnnnnacgcc	600
gctacgncnc	tntcngatcg	tacnncantg	tgntncnnca	nacnnnacng	ntntnagenc	660
agnanngtnt	acgcntctng	taccncgcan	nntcgangcg	cngtnnagtc	tgggcgtnnn	720
tngnnanatk	atntcggntc	ccacntnntn	ngcgcntgca	aagagtgtna	tnnccntnn	780
gcncannngt	gtnacataca	ganacantag	cnggagcgcc	tnattntgng	tctanntacg	840
ctntntgtga	ngatntaca	tctnanntgg	cntgcnaent	nanntnatgn	cgcnantnt	900
ganntnnngg	agangttcag	cnncaaattg	gcacgngcat	ntngnncctc	agtgcgcnn	960
tcggnantnn	annacacnct	tgntgttant	gtcgtnatcn	ntaaccacnc	tntcttactn	1020
ngngntcnn	cgggngngaa	gnnnatnnnt	ncnnncgnat	gcgcagatac	gctnggngcg	1080
anattgngct	tgtncaacgt	cagcacngtt	ntnacagngt	nnntntcctn	ncgtgcgnc	1140
tgncnncggn	catnncgtna	gtntgtacgt	acngcgga	tantctnatn	tangctcanc	1200
ntnagencnn	ncgtcngag	tntnngtnca	tgtaangana	gatnatancg	tnantntntg	1260
nagngtnnc	gccngngnga	nnngtacata	ctctgtntnn	nnngatctcc	ncgctncgct	1320
gntctctncg	ngtnttatna	ncgacgtttt	nacagnnann	tcancntnac	tcccgnctctg	1380
atnnnnng						1387

<210> 1645
 <211> 1492
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(1492)
 <223> n = A,T,C or G

<400> 1645

acgtcnnctt	gtccncatta	cncatnnnac	acacgtgnan	cctngacggn	cacnctgtgt	60
ctatcnnctn	ganannataa	cnttggtgcn	ntgncggnan	nacgagttcn	ncntantgntg	120
cattancacg	agaggncctt	ncatttatnt	nnnggggcac	ncegcgncgt	tttggtaaat	180
ccentattgt	natggaacga	gtcngctanc	aacatcntga	tnnntagntc	ccgatcanna	240
tgaagcnnnta	ngcatectcn	gaanctnnat	nggtanatnt	tnatntagcn	nnnnnnnttgc	300
gnacnctnga	nanatagngg	acnctagnta	gtannntagt	ccatnacnta	tctnntgtnn	360
naaaancctnc	annacntctt	ggcntgaaaa	natacnnntna	nttngggann	nnncgcnncg	420
tgtnancagn	ngggntggat	tgtnttgntg	tgngcncctat	ncnctgnggn	ctaaatnnta	480
ntntactggn	ntnannnnnt	aagnntcnnn	ctnannnncaa	ncnnggcnn	tgagatntgn	540
acganttagg	ngtnnatcng	nntaggnnta	tcnnntnnna	ntganataan	gcnnntmnt	600
ncctantggg	tcngcgcgtg	cttntcttgg	cagngtagtn	ntgcnnacnn	atgngngcnc	660
tnacncacng	caencncntc	ancngatggn	ctantcacag	naccaacatn	cncantant	720
tnanantact	nacnactgac	gcnnntgtnt	ctcgcctncn	ngaggananc	nnngacatgt	780
ctcngaacan	tcncnncnt	cacatntctc	ngcncgttca	ctnnntatgc	naagcnnntg	840
accgaccttt	ctntctntac	atategttng	tnntgtnnat	nacacgcatt	ctntcnccaa	900

nctatncncc	ntcacnnngt	agaganaach	cgattnnnta	cttnncgata	gcgcgcnnnt	960
atactnnnta	catanatcac	tacttnngcg	atnatctnaa	tacnatacnn	tgcgggcagc	1020
cnatntgaac	nnctcgaaca	ctcngngacn	tntnnatntn	tcanncatgn	atnnnanata	1080
cttgtgtgnt	nagcacactt	annctgagcg	tancngctnt	atcgtnacag	cnttcgntnt	1140
acacaganca	tacnttgntn	tancgtatnn	acnctatant	gcaccntanc	nactgatntn	1200
gtatnnnag	gtgangntna	agnggancnn	tnnaanntgn	cntancttct	cctncngngg	1260
nncgnaenca	ncnnctgag	agtcnnngtn	tgncancttn	tatcnaanna	ancncnactn	1320
taegcentga	tcnnnngtct	cgcngtntnn	ntgtatatgt	ncgatctaaa	tanncnntgt	1380
tgcgnntnta	taagacnnct	gctctnnatg	ctctgnntca	ctagnncagt	ctcnttcnnt	1440
gnacaganng	actgctntan	ncntacgctc	tcgtgtntgn	ccctcnnatc	cg	1492

<210> 1646

<211> 710

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(710)

<223> n = A,T,C or G

<400> 1646

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taccgtatcg	acgtggggcc	tccggttgct	gctaaatggg	aaaaacttag	cttagtactg	120
atagatgact	ttattgaaag	tggaaactgaa	caagtactcc	tacttttttaa	ggactccttg	180
aactcagact	gcctgacttc	atttaaaata	acggatcttg	gaaaaataaa	ctattcgagt	240
gaaccatcag	attgcaatga	agatgactta	tttgaagaca	aacaagagaa	tcgttacctg	300
gtggttccac	ctctagaaac	aggactgaaa	agcacatgga	agatcttttt	gcacttcttg	360
cagcattcca	taaaatcttgt	tttcaaatca	catcaccggg	ctatgccctg	aattcaatga	420
aggtgtggct	cttagaacat	atgaaatgtg	aaataatcaa	agaatttcca	gaagtgtact	480
tttgtgaaaag	accgggaagt	ttctatggga	cactcttcac	ttggaaacag	agaacaccat	540
tcgaagggat	tttaataatc	tattccagga	atcaaacagt	tatgttccag	tgccttcata	600
atctcatcag	aattcttcct	tataaactgt	ttcctcaaaa	atctaaaatc	aggaagtgaag	660
aatttcctaa	ttgataatat	ggcatttact	ttggagaagg	actagtcacc		710

<210> 1647

<211> 721

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(721)

<223> n = A,T,C or G

<400> 1647

ttcnatcagc	tcttgttctt	tttgcaggat	cccatcgatt	cgacctcaaa	aaaaatgctg	60
atatcctaaa	atattcctag	tatcctaaaa	tattccataa	atcagatatc	ctacaaagcc	120
aaactgggtcc	ttcttggttaa	aattaataag	attctataag	ctgttaacca	aaaaagtttc	180
cactaacact	gcataacttaa	ctctcctaaa	taaaatttaa	tatgcaaaat	gttaattcaa	240
atcaaaaata	taataaacac	aaccataaag	ctagcaatta	agattaaaag	gtttatgagt	300
gtctattaaa	ggataaatgg	ataaagaaaa	tgtgatattc	gtatacaatg	gaatactatt	360
cagctataaa	aatgaatgaa	atcatgtctt	tttgtggcaa	cgtggatgga	actggaagcc	420
attatcttaa	gtgaaacagc	tcagaaacag	aaagtcaa	atgctggaag	atcttctctg	480
attactttaa	ttttctaagc	caggtcattg	gcttagtaag	aaaggaagct	attaggagtt	540
tgaaaagaga	ggagagcata	taattgtcta	gaaagtggga	aagtgaatgg	actagagaaa	600

```

tacagtatga tcaccangcc agtggttaang ggctcatttg aggctaaagg gtctgagttt      660
aaaagtggan ggcncnggtca gcnttggggt ttggngcttt tttttcttcc agcccccttt      720
n                                     721

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<210> 1648
<211> 712
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1)...(712)
<223> n = A,T,C or G

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<400> 1648
tacantctctt gttcttttttg caggatccca tcgattcgaa ttcggcacga gcgcgacgca      60
cattgatgga gcgtatgtcc aggcgcgggt gcaccgcaag gagcaaaaaca gacacagttc      120
ttggctcctag ggctcacgtc ccggggcgaa gaggatcctc cataaacgat cagccatagc      180
agctgtgatt ggacaagaga ctgatttcag tgactttctc ctgataagag accaccgacc      240
agctgaccat gccgaccagc tgaccctgta atagagagag atgatgcacc tgcctgcctt      300
tgtgtcctga aaagacgttt tgccataaag gccctaattg taagatgtgt aaatgttaag      360
tctccacccc aaagtgaaca tgggtcatat attacatgct ttgctcaata agagggcatg      420
tgtcaggacc accttcata atattcatag ctctnctgt tacctgttga atatgtatgt      480
ttagccaatc ccttcagcat agcgtcctt gcccacaacc ctctncttg gacgtgcctg      540
tctctggcct tggctggaga cagattccca gcctcagaca gatggccgnc acctttgcag      600
gctacgaacc gtttacaaaa aaataaagcc ttctnttttt tccnnnnnaa annnnnnnnn      660
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nttrnnnnnn nn              712

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```

<210> 1649
<211> 678
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1)...(678)
<223> n = A,T,C or G

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<400> 1649
ttgnaattca natcagctct tgttcttttt gcaggatccc tcgattcgaa ttcggcacga      60
gggacagcac ttagtagctg tggaggaaga tgcagagtca gaagatgaag aggaggagga      120
tgtgaaactc ttaagtatat ctggaaagcg gtctgcccct ggagggtggt gcaagggttcc      180
acagaaaaaa gtaaaacttg ctgctgatga agatgatgac gatgatgatg aagaggatga      240
tgatgaagat gatgatgatg atgattttga tgatgaggaa gctgaagaaa aagcgccagt      300
gaagaaatct atacgagata ctccagccaa aaatgcacaa aagtcaaadc agaattgaaa      360
agactcaaaa ccatcatcaa caccaagatc aaaaggacaa gaatccttca agaaacagga      420
aaaactccta aaacaccaa aaggcctagt tcttgtagaa gacattaagc anaaatgccca      480
gcnagtatag aaaaagcgca ttgacagtcc tgggcctcat gtaaatgaag cccaaagatg      540
gggagaagga aaaggagaga caaatatagt ccatctgagt gtatcaccat ncagctgagt      600
ttcttttatt natcccttct tgttgaccca tcctttcngt ggaacatntt ggtcctaacc      660
ttntttgntg tnngttca                                     678

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```

<210> 1650
<211> 817
<212> DNA
<213> Homo sapiens

```

<220>
 <221> misc_feature
 <222> (1)... (817)
 <223> n = A,T,C or G

<400> 1650

ttgnaatttc	anatacanct	acttgttctt	tttgcaggat	cccatcgatt	cgcttgatcc	60
tgccaacagc	agttcaggcc	agccccacat	ggagcaagta	cctgaggccc	agcccccttg	120
ggacttgccc	atcctggaag	tggaggagat	ggagcccccg	ccggttatgg	agtcctccca	180
gccccgccag	gccaccgccc	cgcttgactc	tgggtgtgag	aagcacttcc	tgcccacacc	240
tgaggagctg	ggccttcttg	ggccccccag	gccacagggt	ctggcctgaa	ccacacgtct	300
ggctgggggc	tgccagccag	gctagaggga	tgctcatgca	ggttgcaccc	cagtcctgga	360
ttagccctct	tgatggatga	agacactgag	gactcanaga	ggctgagtca	cttacctgag	420
gacaccagc	caggcagagc	tgggattgaa	ggacccttat	agagaagggc	ttggccccca	480
tggggaagac	acggatggaa	ggtggagcaa	aggaaaatac	atgaaattga	agagtggcaa	540
cttgccctgc	aaaatctgtt	tccgttgtaa	caagaacttg	aattttggga	cccccaagcc	600
ncaattggg	cttnacgncc	ttggtaaaatt	ccccaacaaa	cttttttggc	cangggcccc	660
aaangggtn	gggaaaggg	aatcaacntt	taanaaggcc	ttttgngaa	gttttttgg	720
aaaaaaccaa	gccccctggg	gggccaaatt	ntttnnccca	agggaaaccc	ccttttaaat	780
tttccaaaaa	aaatttaaaa	aaccntttt	caaaaana			817

<210> 1651
 <211> 718
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)... (718)
 <223> n = A,T,C or G

<400> 1651

gaaattcana	tacantctatt	gttctttttg	caggatccca	tcgattcgaa	ttcggcacga	60
ggtgactcca	agcccccgtc	ctgcagcgag	aggccccctga	cgctcttcca	caccgttcag	120
tcaacagaga	aacaggaaca	aaggaacagc	atcatcaact	ccagtttgga	atctgtctca	180
tcaaatccaa	acagcatcct	taattccagc	agcagcttac	agcccaacat	gaactccagt	240
gaccagacc	tggctgtggt	caaaccaccc	cggcccaact	cactcccccc	gaatccaagc	300
ccaacttcac	ccctctcgcc	atcttgcccc	atgttctcgg	cgccatccag	ccctatgccc	360
acctcatcca	cgctccagcga	ctcatcccc	gtcagggtctg	ttgcagggtt	gttttggttt	420
tctgttgctg	ccgttggtct	ctcattggct	cggtcctctc	ttcatgcagt	gttcagcctc	480
ctcgtaact	ttgttccctg	ccatccaaac	ctgcacttgc	tttttgacag	gccagaagaa	540
gcggtacatg	aagactccac	acaccgttcc	ggaaggcaaa	agccttgat	gcctgcaaag	600
cttgaacatg	actcaaaaact	ttcgttcaca	gcaggcacgg	tcttcgataa	tgcaagaagt	660
gtccttcagc	tttcaacagc	catttttnac	tggcacaccg	gaancttccg	gggcacct	718

<210> 1652
 <211> 709
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)... (709)
 <223> n = A,T,C or G

<400> 1652

canatacagc	tcttgttctt	tttgcaggat	ccctcgattc	gaattcggca	cgagtcaggc	60
tgggagggac	ttcagttngc	atggtggggg	agaaccagta	ccacataccc	agtaggtaat	120
aaggtgtcca	gcagaggatg	aaggtcagca	agataagcag	ggccagtctc	agggcccggg	180
gacgaacacg	gggacaattg	tcaaaggagc	gggggagggc	aaattnacca	gcaggggcta	240
ggaattttaga	aaatatactg	taattcagac	actcagcttc	tgatctgagt	ataggggtgaa	300
ttgatggagg	ggcatagcta	gtgagacaga	gctcgcctcc	tacaaggagg	agaatgttgc	360
aaaccgtttt	ccccctccca	acctgggact	atatgatttc	ttacccccag	ggattatgat	420
agaaatatga	agccaccaag	tctagacttg	atggtgttca	agaataaata	atactgattg	480
cctccctagt	ccttgtccag	ctaactcagc	tgttttataat	tgaagggatt	caacaaaatt	540
atctctagca	tcaggtgcta	gacatggtta	gaatctcacc	atggtttant	gactggtaga	600
tagctattan	gtanggtagg	ataaaaataaa	tgatgctaga	ggcaacaggt	ctanggttaa	660
ggattaaggc	cttggaatt	gggaatctca	ccatggctcc	ccttccttg		709

<210> 1653

<211> 1595

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1595)

<223> n = A,T,C or G

<400> 1653

gntttaaaaa	ggaaaaaangg	atgannagga	nggttantnt	ncgatnggan	gnnntnacgn	60
anaattcgga	cnttgtcnng	atancgnnnc	ntntcgtntg	tcacnnnnntn	atatgatntc	120
tngcgcntgt	gaggggtctc	nagcntgcn	accnnntggt	actgaganng	agancncnca	180
ntagaagagt	acgccnatat	ctgggngacg	gntnccagct	gncnnntttt	ggnaaaaangc	240
ccttcagtgc	caanagcntn	ttcnatcntn	atatnnctac	nctcagannn	atngncctga	300
nanagnnann	nncatnntgg	anatgcnnntn	ggncatatnt	gntnntnaga	gnanncagtt	360
ngnngnchnn	nntggangat	nngnttgann	tnatnatcag	cntnnacctn	tntnnnccgt	420
ngaatatnc	tngntncngn	gnttnaggg	ttgcngtncg	gnttgcnacg	gantnttgann	480
nnntnecgtc	ncnnntcnnn	nangtntctg	ncngnntagt	gacngantna	angaggtcnt	540
nngnntcnnt	ntnngnnnng	ttnnagnata	nngcgcacga	nnnnctgtng	nngnnnnncnc	600
ntnnntcanc	tnncnaaacc	ntanactgga	tangtantnn	cgnannnnntn	cntntgtata	660
tntntcncng	tatnttcgcc	ncacatntga	gctatnatna	tagatcnnnn	atcgcanngn	720
ncatatgnac	gnatnggagt	cngcagctgc	acanggagga	cacnggtgnt	nanagtgnata	780
tatnagagca	natgnnacnc	nnngannctc	acgnaatann	atgtggcacn	gtagattcat	840
gctanagagc	ncgngngcng	nacagcntnn	atgatannag	nttgtnagcg	atcnatnnan	900
ttngatncac	annnnctnnn	tcgttntnnn	ncncagttnc	acgcgtgagc	anagtagagn	960
acnttgnann	ncgaatgnnt	nctgtatcgc	acgnncttgc	gtacacantn	tnnanacngn	1020
cnattatntg	cgnnccncgc	tgcnccgcgt	nacnnctnna	atcgcntttg	acgcnnagta	1080
tgattgnatg	gcgntgcncg	tgnnanncgn	atnntggacg	natntgtgnc	gttntnecgn	1140
cannnnecgt	ctntggnttt	agaganacgt	gtntcactgn	ntagnagagg	ncgnttgna	1200
cggtnacagt	ntctgngata	gantgaanga	gtagatgcan	cnganaaggg	tgtcnctagt	1260
ncacgcgnnt	nacntcnntt	gtngaataac	ntcatctnga	tatggcncgg	ngccgatatg	1320
actnactcgc	tacangtgc	tngatttncg	nntgacgagn	ntcgcgngag	cntactcant	1380
gnctntatgg	ngcgnncgna	tatnnctatn	nnttgntagt	cngtccatca	ntntncaanc	1440
gattagtcgn	cacgntnncc	gcattacgat	gatgaccnna	cgataggnat	ngctctnngt	1500
ctnatcncac	antnanganc	tattnnatna	gaancatggn	aannnttggt	actatcgnat	1560
angtctnnan	ctatnaaggt	tatcgaacac	nagcg			1595

<210> 1654

<211> 776

<212> DNA

<213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(776)
 <223> n = A,T,C or G

<400> 1654

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aacaattcag	tattctgac	cctgtgaatg	aggataggag	ctggaaactc	aattagtcct	180
ctgtgacatt	actggagggg	ggaacattct	tctgtcgctt	gaagcagaac	tcattcaatc	240
aaataattta	atttctctga	ctagtatatg	ggtaacaaat	gaatatgtct	gaacctcage	300
tataatactt	tctactacct	ttgcaaggag	atgggatagg	aacaatcact	cagaggaggc	360
gttgcatgga	cagggtcatt	agggggaaga	aaggnggggt	aactgggtta	tttaaccatt	420
cagggggctc	tncaaanang	anaccgtggt	aganggtgac	tanaaaagat	agaatgtct	480
ttcttagggc	cgggttgccg	tngetcacc	ctggtaattc	ccancacttt	tgggaattgc	540
naagggtggg	ccggaatcan	tttganggtc	aagggaagtt	caaaaanaacc	aagccttgcc	600
caaacaattg	ggaaaaaacc	cccgtctttt	ttcttaaccc	aatttccaaa	aaaattttnc	660
cccttggtgg	ttgggtnggc	aaccggggcc	ctnttaattc	ccaaccccc	tttgggaaan	720
gggccnaagg	caagggaaaa	aatccnccct	tnaacacttg	gaagggtgga	aggggt	776

<210> 1655
 <211> 762
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(762)
 <223> n = A,T,C or G

<400> 1655

gnnnnntnnt	ttgattgntc	tngetcttgt	tctttntgca	ggatcccatc	gattcgaatt	60
cggcacgagg	tcaccaactt	gaaaccagca	accatcaagg	tctatgacta	ctacctacca	120
gatgaacagg	caacaattca	gtattctgat	ccctgtgaat	gaggatagga	gctggaaact	180
caattagtc	tctgtgacat	tactggaggg	tggaacattc	ttctgtcgct	tgaagcagaa	240
ctcattcaat	caaataattt	aatttctctg	actagtatat	gggtaacaaa	tgaatatgtc	300
tgaacctcag	ctataatact	ttctactacc	tttgcaaggga	gatgggatag	gaacaatcac	360
tcagaggagg	cgttgcatgg	acaggggtcat	agggggaaga	aagggtgggt	agctgtttta	420
tttagccatt	cagggggctc	tccagagagg	agacggtggt	agaggggtgaa	ctagagaaga	480
taagaatgtc	ttcctaggcc	ggatgcggtg	gctcacgcct	gtaatccag	cactttggga	540
ttgcgagggtg	ggcggtcac	ttgagggtcag	gagttcaaga	ccagcctggc	caacatggta	600
aaaccgctct	ctactaaca	tacaaaaaatt	agcctggtgt	ggtggcacgg	gcctgtaatc	660
gcaaccctt	ggaaggccaa	ggcaggagaa	tcgcctnaac	actggagggtg	gangttgcag	720
tgaacctgag	aatgngccac	tgnacttcan	cctgggcaat	gg		762

<210> 1656
 <211> 703
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(703)
 <223> n = A,T,C or G

<400> 1656

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aaaaatgcaa acacatggta gggaattact actgcttatt ctcaacagta ccacagaacc      180
agtgtttgag tgctggcacc atatgcaaca tggggcatcc gggctggagt gatccagttt      240
tttagttggt ggtggcgatg atttttcttt ctttttggtt tataattttc tgttcatttt      300
tccccctttc tccccacat tcattaagaa ccctactgaa accctagggtg acaaaaagggtg      360
tgccttctgt tgccacattt gaccaccac aggactcact ggactggact tctattttata      420
ttgtattaag taactgatat atatatatat atatatatat atatatattt gattgacacc      480
aaaaaattac cttggcacia atgccagacc tgtgaagggtc agaggccccg tgcttctccc      540
aggagggagg gaactttttg gntgtctgtg gcaattcctc tgtacagatt gtaacttttt      600
aaaaatttcc cttcaccccg tcacttgaat atatgttcat agtaaatttg taaganactt      660
cttttcttta ttttgggtgca agaacccttc gacacattct gtt                          703

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<210> 1657

<211> 858

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(858)

<223> n = A,T,C or G

<400> 1657

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tgacattggc agtgagtcca tggatccagg ctcagtgtct gtatgttgac ctggtgttgt      180
cagtgtgtct gtggatccag gctcagtgtc ggtatgttga cctagcattg gcaactgagtc      240
tgtggattca ggctcagttg ctggtatgtt gacctgacat tagcagtgtg tctgtggatc      300
caggctcagt ttcacagagg tttgtataaa catggtctca ggtgggttct tgacacctgg      360
gtttcaagca caaaagtact ggctgggctt gttaggtgaa gtgggggtgg gtctaccacn      420
atgaatnnca taattctgaa ggctttgccca anccctnngg gaaagggtgg gttcaaaaaca      480
caagggtgaa naaccctttc cgntgggtta ggggtccaag ancaccaa taagggtgaa      540
nttaagtggg tngngccttc tttattattc naaagggggn aaaaggcccn gtaattncaa      600
tttgggtaaa ggggtgggtt nggtcaaccc ntggggggnt tcttggccct tgggggttgg      660
atngtctctt naagggggaa aacccccctt anaaagggaat tccangcctt nnggggnacc      720
aaggggtaaa tccttngttc cctcaagnca accnccttgg gtcccnaggg tctntngant      780
aagaaccang aaacttccag ggggttnaaat aacaaaaagg gggcttntaa nggaatcttg      840
gttnaaccct aagncctt                                     858

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<210> 1658

<211> 704

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(704)

<223> n = A,T,C or G

<400> 1658

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gtgcagtcac cetaaatata gggttcagagc atctcctgtg aatgacatat tttgtcaatc      120
actgccagga tctccattta agccccctac cctgaggcag ctggagcagc aggaagaaat      180
actaaggggt ccttttagga gaaataaaga ggggtgtcggg tgggtggaaat atgaattctg      240
ctatggcaaa catgtacatc aataccatga ggacaaggat agtgggaaaa cctctgtggg      300

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tgtcgggaca	tggaaaccaag	aagagcatat	tgaatgggct	aagaagaata	ctgctagagc	360
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tggagatatt	tgtgatataa	ctgacaaacc	aagacagggtg	actgtaaaac	taaagtgcaa	480
agaatcagat	tcacctcatg	ctgggtactgt	atatatgcta	gagcctcact	cctgtcaata	540
tattcttggg	gttgaatctc	cagtgatctg	taaaatctta	gatcnagcca	gattgaaaat	600
gggctttctt	tctcttcccc	aactaaaagg	atattaaagt	tagggggaaa	gaaaaaanca	660
tttgaagtca	tgattaatth	ctgtcccact	gngtctcatn	ataa		704

<210> 1659

<211> 700

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

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<223> n = A,T,C or G

<400> 1659

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atcaccaaac	tgataacca	tacaaaagta	gctcttacia	ctttttttga	gaatattttcc	180
cctaaaaaat	tccagtgate	atcccaacct	acaaaactag	attattttac	tagtatcatc	240
ttctctttac	ccctcttctc	cccaccaaca	ctccctccaa	cacacacaca	cttctcctta	300
agagaaacgg	cttctctcaag	aaattatctg	atgggttcagt	agcagttgga	gtttttacaca	360
aactatgttg	tgattgggca	aggcagacta	ccagatctgg	gattcagtag	accatttcctt	420
actgtcagat	tatctttctaa	gtgactgctc	ttagagaaac	aacacagatt	tgcttcaaga	480
gattacaaat	gtggtaggcc	taccttaaca	gcaactagtt	ttttttaaga	aacacggctcg	540
cactgtcgcc	caggcaggaa	cacaatggca	tgattatgct	cactgcacct	caaactncta	600
agttcaagt	atccttctgc	ctcagctnct	ggaatagctc	aaactatagg	catatgccac	660
catacccaag	ctagggtttt	cgggtttttg	gttttttaaa			700

<210> 1660

<211> 697

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(697)

<223> n = A,T,C or G

<400> 1660

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ctgacttgga	aatagagcta	ttaaaacggc	agcagaagtt	ggagcagctt	gaacttgaga	180
agcagaaatt	gcaagaagag	caagaaaatg	cccccgagtt	tgtgaagggtg	aaaggcaatc	240
tcaggagaaac	aggccaagaa	gtcgcccaag	cccaggagtc	ctaggctgag	gctgcaccaa	300
gacctcgtgt	gtcacccccac	agagctgtct	gtgggtgcct	tctcaatctc	agggcaaaag	360
cccttgagga	atattccagc	cagcagagaa	ttttgacttg	cagtaggatt	tggtttgatt	420
ttcttacgat	ctgggtggat	gccttgccctg	tgacagttgc	agttccctatt	cgccaaatga	480
agggcagtg	cccgcacgta	agttggaatg	atggacctgt	gttcagagac	ttaacagacc	540
aacaagcaaa	acaagtgaga	acaggaaaaa	ggaagangac	actggaatca	attcttgaga	600
gttgactac	ttggtttttc	ttccattcca	agtttcgtgg	gaccaganc	cttttttctt	660
ttaaaagcta	aaaaaacaag	tgtttaattc	ctctttt			697